ENXDVR-4C

Digital Surveillance in a Box

4-Channel Digital Video Recorder
With Four CCD Security Cameras

User's Manual

ABOUT THE USE OF THIS PRODUCT

After unpacking this product, this user's manual carefully, and follows all the operating procedures and other instructions.

Users of the system are responsible for checking and complying with all federal, state, and local laws and statutes concerning the monitoring and recording of video and audio signals. Encore Electronics Inc. shall not be held responsible for the use of this system in violation of current laws and statutes.

ABOUT THIS DOCUMENT

This manual has been compiled with great attention and care. The information it contains has been thoroughly verified. The text was complete and correct at the time of printing. Due to further product development, however, the contents of this document may change without prior notice. Encore Electronics Inc. accepts no liability for damages resulting directly or indirectly from errors, omissions, or discrepancies between this guide and the product described.

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Chapter

1

Overview

Package Contents

Please check all the contents prior to installations. If any of these contents are missing, please contact the store where you purchase this product.

ENXDVR-4C Kit package contains the following:

- Encore Surveillance DVR Box
- Encore Infra-red ¼" CCD Cameras (4 pieces)
- USB Mouse
- 100-240VAC In / 12VDC Out Power Adaptor with separate power cable
- Setup Disc
- Remote Control
- 2x AAA Batteries for remote control (Optional)
- IR Extender cable for remote control
- User Manual
- Quick Installation Guide

Bundled Cameras

ENXDVR-4C kit comes bundled with four Encore brand high quality CCD with 24 LED infra-red cameras. They come with RJ45 connector, no need for an adapter to connect to the DVR's Video-In ports. These cameras are equipped with 24 LED IR's for clear and crisp night vision videos. It automatically switches to color during day or bright light and to black-and-white during low light or night recordings. No need for extra power adapter for each individual camera, ENXDVR-4C DVR supplies power thru the Ethernet network cable connected to each RJ45 channel ports.

SPECIFICATION	VALUE
Image Sensor	1/4" Sharp CCD
Total Pixels	PAL - 512(H) x 582(V) / NTSC 512(H) x 492(V)
Sensing Area	2.7mm x 3.6mm
Lens	3.6 mm M12 Lens (Optional)
Scanning System	2:1 Interlaced
Sync. System	Internal
Resolution	420 TV Lines
Electronics Shutter	1/60 - 1/100,000 sec
Minimum Illumination	1.0Lux/F1.2, 0Lux (IR on)
Lens	3.6 mm
Angle View	90°
Mini Focal Distance	20 cm
AGC	Built-in
White Balance	Auto
Gain Control	Auto
S/N Ratio	48 dB (AGC Off)
Elctronic Shutter	Auto, 1/50 (1/60) - 1/100,000 sec
Video Output	1.0Vp-p Composite Video Output, 75Ohm
IR LED	24 Units Infrared LED (ϕ 5mm / 850mm)
IR Distance In Effect	10-15 m
IR Illumination	0Lux (IR On)
Environmental Resistance	1P66 (Waterproof)
Operating Temperature	-4°F to 122°F ('-20°Cto 50°C)
Dimension	11.8x10.3x6 cm
Power Consumption	12VDC / 120mA (IR On 320mA)
Weight	270 g (arpoximate)
Regulations & Certifications	FCC, CE, RoHS

Remote Control

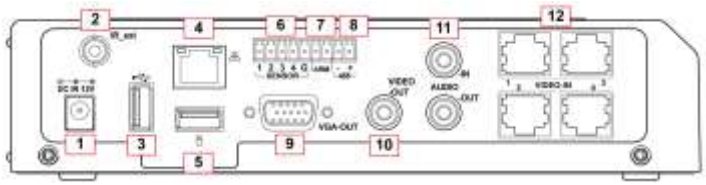
No	Button / Name	Function in DVR Mode
1	REC	Start or stop recording / backup.
2	● DVR	Switch to DVR mode
3	● PTZ	Switch to PTZ mode
4	◀◀ REW	Rewind through video
5	■ STOP	Stop playback or backup
6	II PAUSE	Pause recording of playback
7	▶▶ FF	Fast forward through video
8	► PLAY	Start video playback
9	🕮 MENU	Enter a menu or exit
10	▲(UP) ▼(DOWN) ◀(LEFT) ►(RIGHT)	Move through lists or change the settings of choices
11	↵ (Enter/Select)	Change and confirm values
12	↺ AUTO	Start automatic screen view rotation
13	▪▪ MODE	Changes to split-screen mode
14	– ZOOM OUT	(Not available in DVR mode)
15	+ ZOOM IN	(Not available in DVR mode)
16	1,2,----8 (Channels)	Selects the channel to view in full screen

Front and Rear Panel of the DVR Box

Front Panel LED Indicator

LED Color	Function
● Red light	Indicates system is turned on
● Blinking Red light	Indicates hard drive is in use

Rear Panel Ports



** For USB flash drive only for backup and Firmware upgrades*
*** Not included in the ENXDVR-4C kit package*

No	Label	Function
1	DC IN 12V	DC power port for the power adaptor
2	IR_ext	IR extender connector
3	(USB)*	This USB port is used for **USB backup and firmware updates only**.
4	(LAN)	RJ45 port for the network cable
5	(Mouse)	Mouse port (for USB compatible mouse only)
6	SENSOR **	Sensor ports (marked "1~4") and a common ground (marked "G") (Optional)
7	ARM (ALARM) **	Alarm port (Alarm 1+ and Alarm 1-) (Optional)
8	485+ and - (RS-485) **	RS-485 connector (typically for PTZ cameras and keyboards) (Optional)
9	VGA-OUT	VGA output (DB-9) port for the LCD monitor
10	VIDEO-OUT	Video output port for the security monitor
11	AUDIO-IN and -OUT	Connectors of audio input for microphone and output for speaker
12	VIDEO-IN / Camera Power Output Source	Cat5 Cable with RJ45 connectors for video input: Ch1 to Ch4
13	Dimensions	28.3.0 x 7.2 x 25 cm (Width x Height x Depth)

Chapter

2

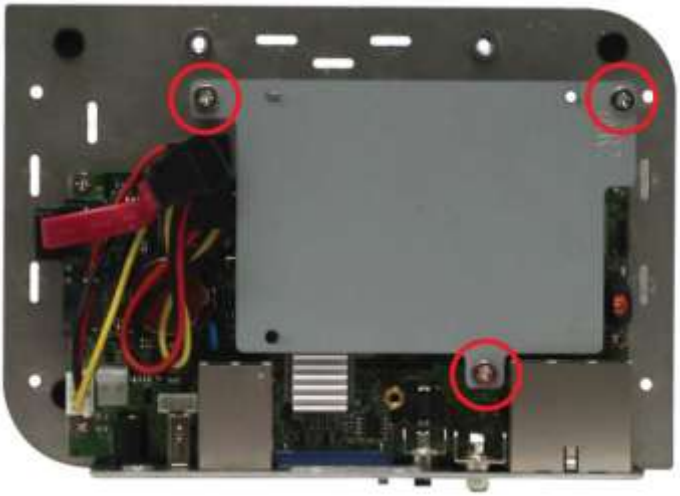
Getting Started

Hard Drive Installation Steps

Install the 2.5" SATA hard drive by following steps

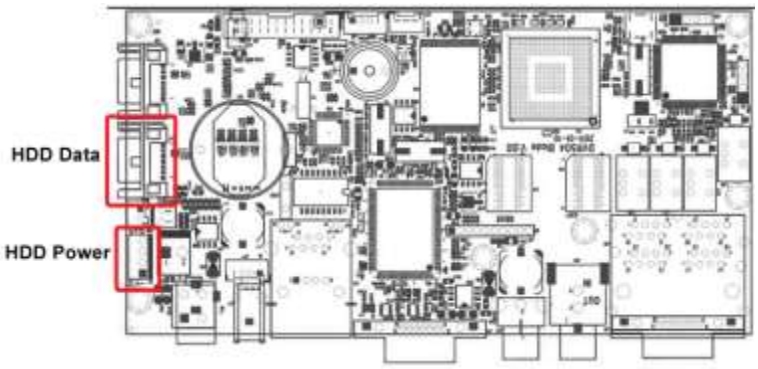
Step 1 Using a Philips screw driver, remove all the screws that secure the DVR cover. Two screws in the back of the DVR box as shown in the picture and four screws in the bottom of the DVR not shown in the pictures.

Step 2 Remove the screws that secure the hard disk bracket to its mount on the DVR.



Step 3 Secure the hard disk to the bracket with screws. (Most hard drive when purchase comes with screws that fit to their individual brands).

Step 4 Remember to connect the hard disk data cable and power cable to the DVR board.



Step 5 Connect the other end of the hard disk data and power cables to the hard disk itself. Secure the bracket on to its mount.

Step 6 Place cover back on the DVR and secure with screws.

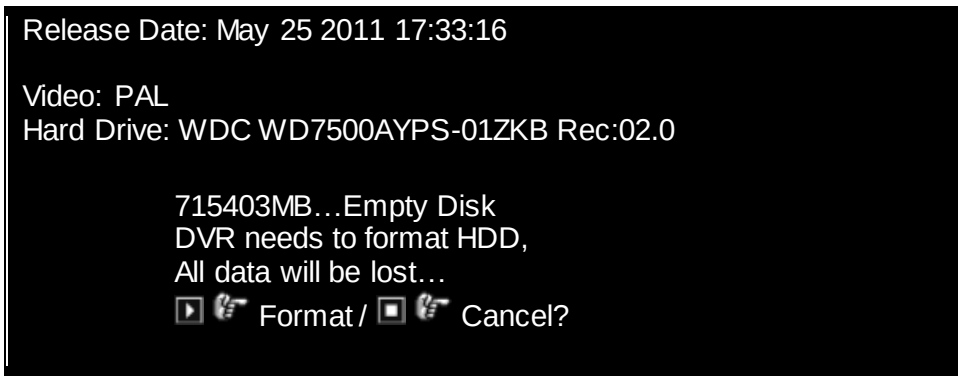
Power-on the ENXDVR-4C

This section assumes that the Hard Disc Drive or HDD is already installed. Connect the power adaptor to power-up the DVR only AFTER all the peripheral devices such as the cameras, mouse, monitor, LAN cable and hard drive have been installed properly and connected to respective ports.

Plug-in the power-plug to the power port and then plug the power cord to the electrical outlet. The ENXDVR-4C has no power switch, therefore as soon as you plugged-in the adapter to the electrical outlet, the DVR will start its operation. It may take a few seconds for the DVR to fully startup. When the installed hard drive is detected and the hard disc format is not recognized, the system will prompt for whether you would like to format the hard drive or skip. Skipping will prevent the system to use the hard disc drive, therefore there will be no video recording will happen in the operations.

Format the hard drive only when:

» The hard drive is brand new or the hard drive is pulled out from a computer or another DVR unit. If the hard drive has been used on another device or from a PC or another DVR all the data in it will be erased when continue formatting. It is always a good practice to back up the data before continuing with the format.


Release Date: May 25 2011 17:33:16
Video: PAL
Hard Drive: WDC WD7500AYPS-01ZKB Rec:02.0
715403MB…Empty Disk
DVR needs to format HDD,
All data will be lost…
Format / Cancel?

Do not format the hard drive when:

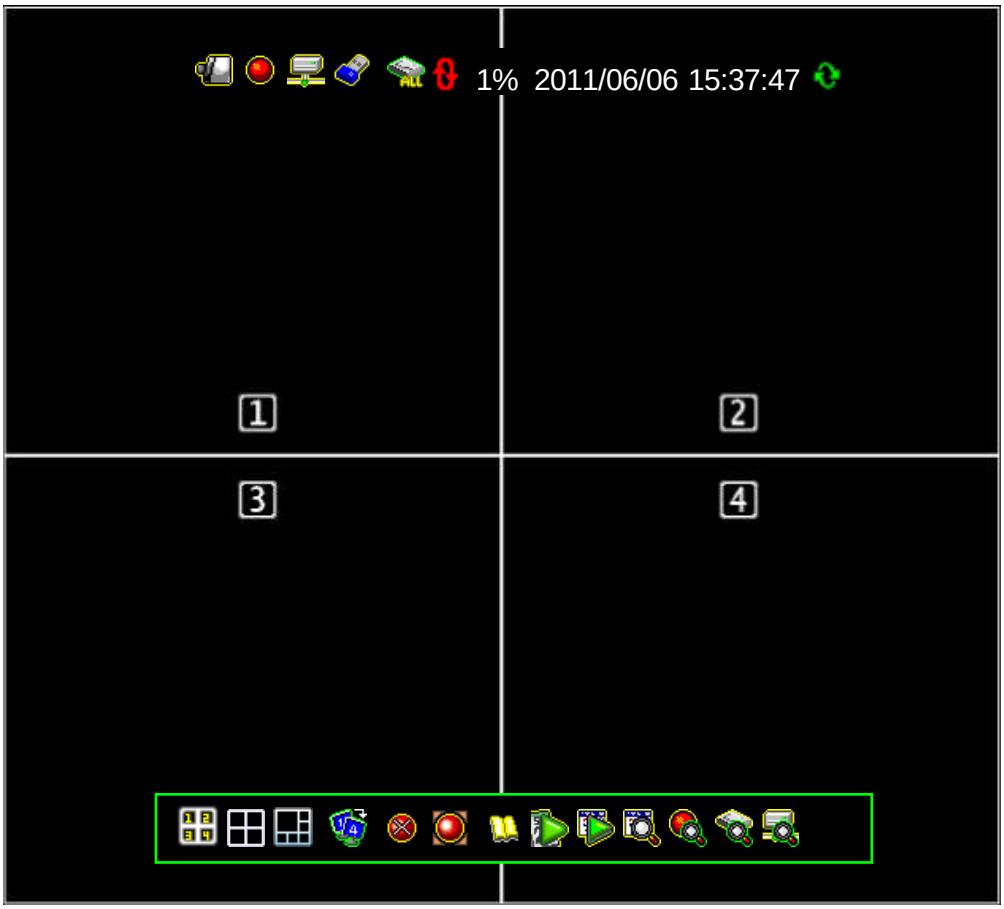
» If the hard drive is pulled out from a PC or other devices and you want to keep the data in the same hard drive. Keep in mind that when the hard drive is formatted the data will be totally and irreversibly wiped out or erased.

NOTE If the DVR system detects the hard drive is the same as it was the last time it was restarted, the starting screen will show the firmware version information such as the release date, etc, and the kind of the video format such as PAL or NTSC, instead of asking the hard drive to be formatted.

The Home Screen is shown after the system is ready.

Home Screen

The Home Screen is the starting point for many functions and applications. It allows you to setup, access, and control the surveillance video data. You may think of this screen as a vantage point to give you instant access to video information and DVR functions. When cameras are installed and hooked up, the four division quadrant screen will be filled with the live video streaming for each camera channel and not black as shown below.



The Status Bar

The Status Bar can be found on the top of the screen. It contains the status and notification icons of the surveillance system.

Icon	Function	Icon	Function
	Camera is working		No signal from camera
	Recording		Recording Stop
	Force Record Start		Network connected
	USB disk connected		Network disconnected
	Hard drive overwrite enabled		Hard drive status
	Channel display rotation enabled		
XX%	Percentage of hard drive already used		
2010/06/03	Current date		
15:37:47	Current time		

The Control Bar

The Control Bar is a popup menu that will only show up by moving your mouse arrow to the lower part of the Home Screen. It may be used to switch displays, open and setup channels and other applications shown in the table below. Moving your mouse arrow away of the Control Bar, the control bar will disappear and back to idle.

Icon	Function	Icon	Function
Channel Views			
	Load default channel display location		4-channel split view
	1+5 Split View		Auto channel rotation
Main Menu			
	Enter main menu		
Recording			
	Start recording		Stop recording
	Start force recording		Stop force recording
Video Search and Playback			
	Playback menu		Calendar Menu
	Event search		
System Information			
	Recording information		Hard drive information
	Network information		

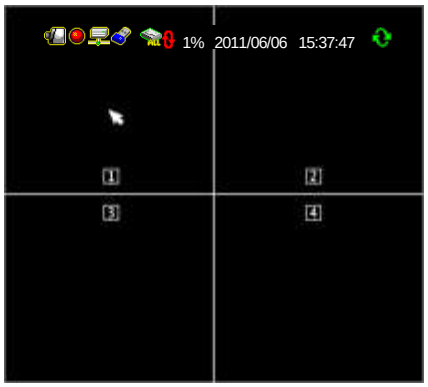
NOTE The Force Record function allows the user to bypass the current recording mode setting and to immediately start recording videos right then. The DVR will revert to its previously set mode once the forced recording feature is deactivated.

Drag-and-Drop Channel Swap

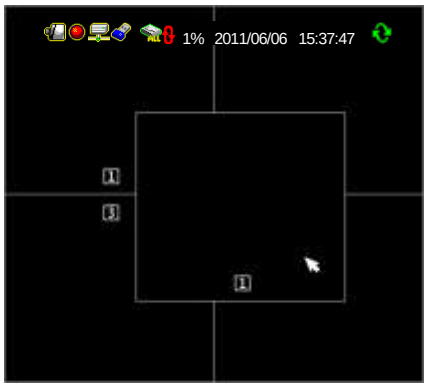
The Drag-and-Drop Channel Swap enables swapping channel displays using your mouse. No need to interchange the video camera connectors. This function cannot be use using the supplied remote control.

This function is also applicable for all kinds of Split View.

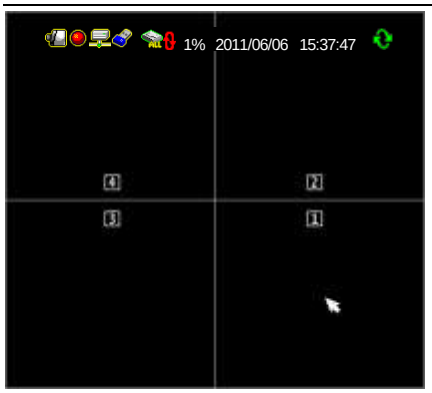
Drag and Drop Channel Repositioning



» Move the cursor onto the channel-square you would like to shift.



» Press left-button of the mouse (a hand icon will appear) and drag the channel-square to the new position.



» Release the mouse button to drop the channel-square into new position.

» System will keep the new channel display arrangement even if you reboot the DVR system.

Load Default Location

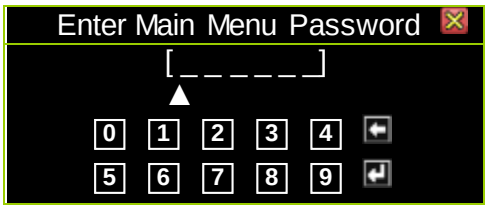
Press the icon " " to reset channel displays to their default locations.

Main Menu

Logging In for the First Time

Press the icon and enter the password to get the Main Menu screen.

The factory default password is "123456" (you can change this password)



Press to exit the password dialog.

NOTE:

When you enter and use the 123456 password which is tied up to the "admin" user account you will be logged in to the system as admin even without entering the username "admin". This is also applied to other default user accounts "power" with default password 999999, "police" 111111 and "guest" 000000 and the rest of the user accounts added to the system. Example: When prompted for password to enter the DVR settings and you enter 999999 you will be logged-in as "power" user and so on.

NOTE:

It is a good practice to create a backup admin user account with a different username and password in case the default admin user account is deleted or you forgot the password. Encore does not keep user's password. Example: Go to "*Authentication Setup*" button , click on "*Create*" to create a new account and name it admin2 or your preferred name, etc. with six digit numeric password 654321 or your choice, then checkmark all the access rights (click on the red X to replace it with the green checkmark), then save it.

Main Menu Guideline

Icon	Name	Function
	DVR Power Supply	Opens menu to reboot or shutdown the DVR system
	Channel Setup	Set the channel display, record, channel name and video color adjustment.
	Record Setup	Set the record schedule, video performance and quality
	Detector Setup	Set the motion, sensor and alarm mode (optional)
	Authentication Setup	Set the login account, password and the authorization for each user.
	System Setup	Set the status icons display, languages, date/time, rotation time, button beep tone, input device speed, and other relevant system features.
	Hardware Setup	Configures error message checks, hard drive information, overwrite settings, network settings, Audio and screen settings.
	Utility/Tools	To format USB devices, update firmware, export event logs, and to restore system settings.
	Exit Main Menu	Exit the main menu.

DVR Power Supply Menu

The icon opens into the following menu:

System Reboot: Restarts the DVR

System Shutdown: Turns the DVR off

Channel Setup

Click the "Channel Setup" on the Main Menu. The screen will display the menu shown in the following illustration.

Operation Icons

Click on the icon to expand the menu and view its contents.
Click on the icon to minimize the menu contents.
Click on the right button of your mouse to go back to the upper menu.

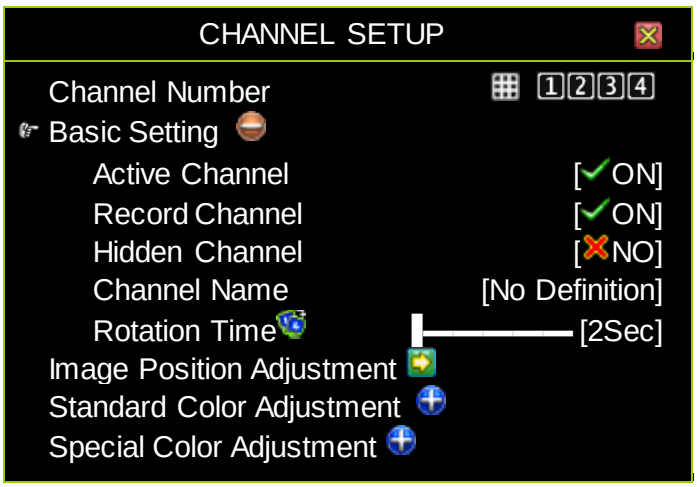
Channel Number

The Channel Number is used to designate to which channel or channels the settings will apply.

Select the icons "1" ~ "4" (for 4Ch) to individually setup of each channel. The channel icon will turn green when selected and will turn to white when not selected.

Select icon if you desire to have all settings setup pertains to all channels as a group. When this icon is selected, the "Channel Name" will be grayed out and cannot be defined.

Basic Settings



Active Channel

Activate one channel or all of the channels. Active channels are ready for recording and are displayed on the screen.

"ON" – Activates selected channel. The channel number icon turns to orange.

"OFF"- Disables selected channel. The channel number icon turns to gray.

Record Channel

This parameter sets one channel or all of the channels to record videos. An active channel will be displayed on screen even when it is not recording.

"ON" – recording

"OFF" – not recording

Hidden Channel

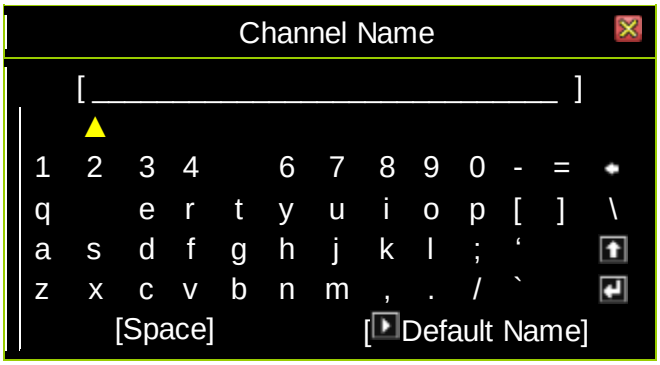
Set whether or not to display one or all channels on screen. The channel will continue to record regardless of it being hidden or not.

"ON" – Hide the channel on screen. The channel square turns to black and channel number icon turns to white.

"OFF"- Unhide the channel or channel is visible.

Channel Name

Designate a name for each channel. The channel name is limited to 24 characters.



Press the icon [Default Name] to select a channel name from the list defined by the system: Room, Hall, Door, Lift, Area, Floor, Entry, and Point.

Press the icon " " to switch to big letters.

Press the icon " " to enter the channel name. The channel name will appear on the channel square.

NOTE You may also define the name by using buttons on IR remote. Kindly refer to the Hardware Installation and Operation Manual of this DVR for the diagrams.

Rotation Time

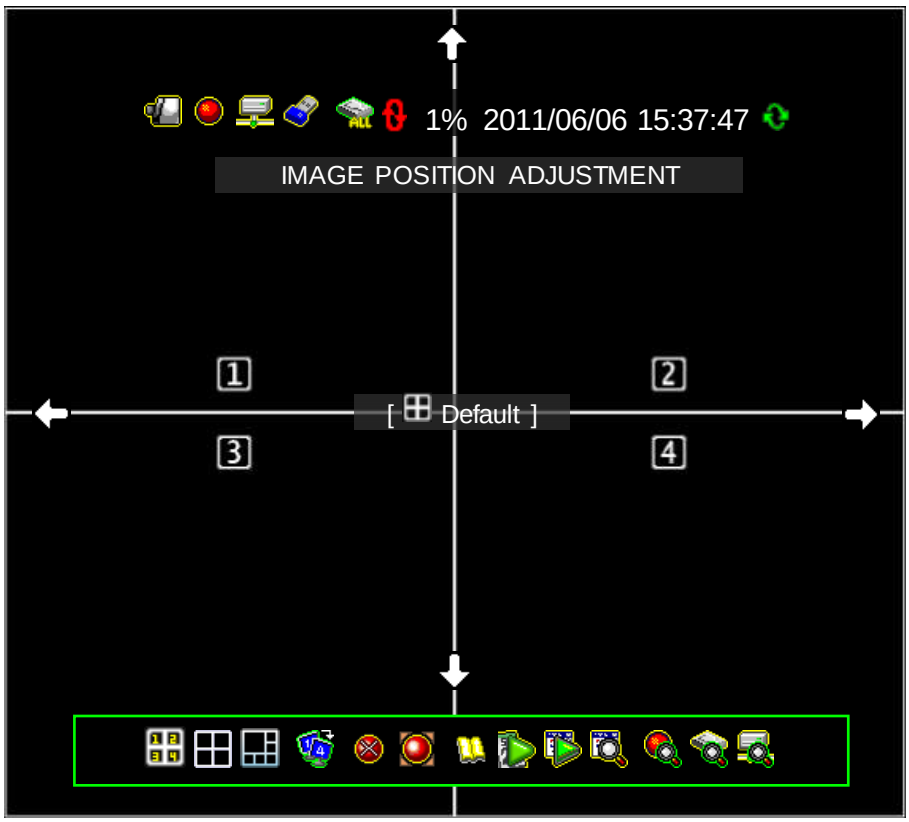
Sets the period (with a range of 2 to 30sec) of full screen display for each channel.

Image Position Adjustment

The steps to adjust the position of display on the monitor are as follows:

Step 1 Select the icons "1" ~ "4" to individually set the image position of each channel.

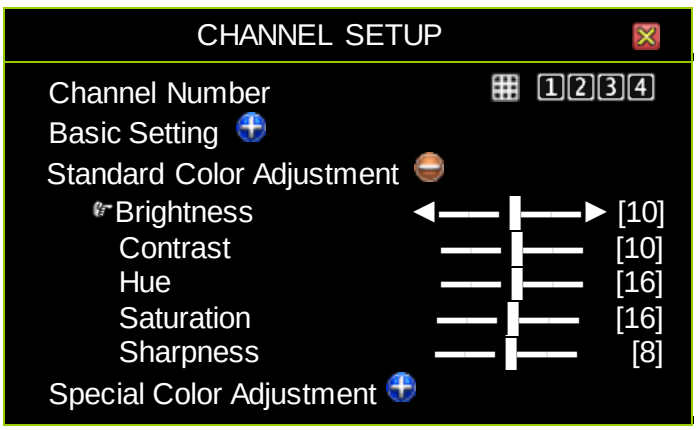
Step 2 The following figure (for 4Ch) will appear when you enter the "Image Position Adjustment":



Step 3 Adjust the image position by mouse left-click follow the direction change of cursor icon up/ down/ right/ left. Press [Default] to load or to restore to the default location.

Standard Color Adjustment

Adjust the video color parameters for each channel or simultaneously for all channels.

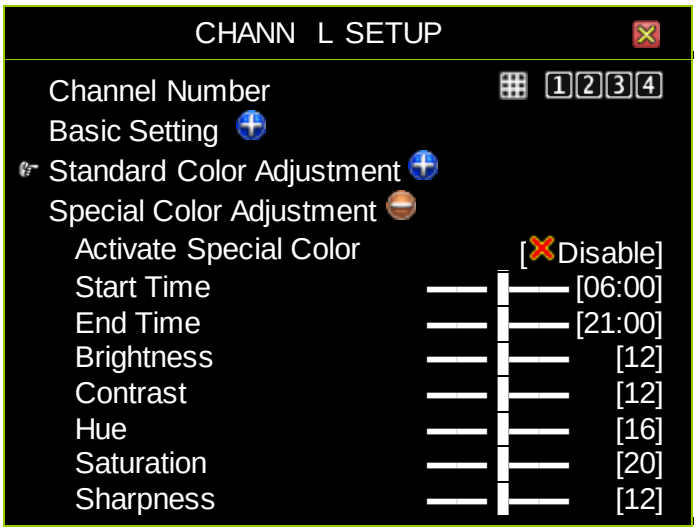


✓ **Brightness:** Default is 10.
Press the button "◄ / ►" to adjust the brightness from 1 to 20.

- ✓ **Contrast:** Default is 10.
  Press the button "◄ / ►" to adjust the contrast from 1 to 20.
- ✓ **Hue:** Default is 16
  Press the button "◄ / ►" to adjust the hue from 1 to 32.
- ✓ **Saturation:** Default is 16.
  Press the button "◄ / ►" to adjust the saturation from 1 to 32.
- ✓ **Sharpness:** Default is 8.
  Press the button "◄ / ►" to adjust the sharpness from 1 to 16.

Special Color Adjustment

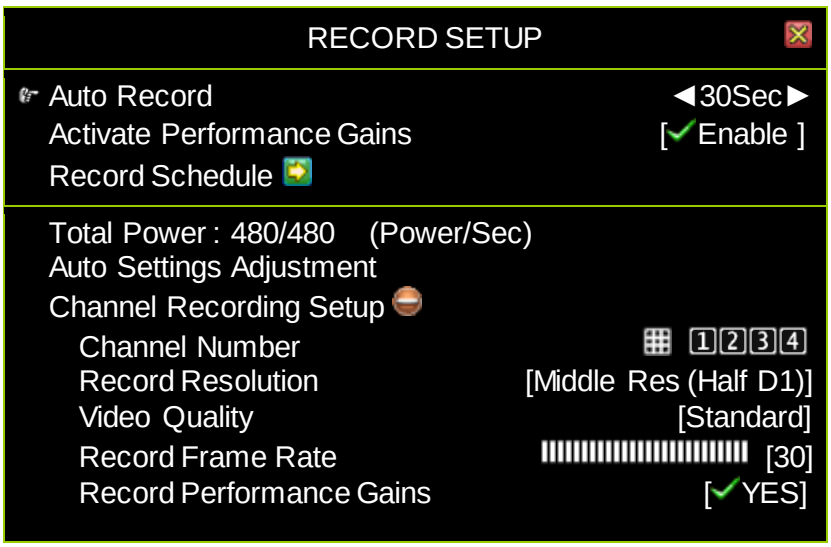
Special Color Adjustment applies to video color parameters and designates the setting for a specified period for an individual channel or for all channels.



- ✓ **Activate Special Color:**
  "Disable" (Default): Disable Special Color Adjustment.
  "Enable": Enable Special Color Adjustment
- ✓ **Start Time:** The start time for the special color setting.
- ✓ **End Time:** The end time for the special color setting.
- ✓ **Brightness:** Default is 12.
  Press the button "◄ / ►" to adjust the brightness from 1 to 20.
- ✓ **Contrast:** Default is 12.
  Press the button "◄ / ►" to adjust the contrast from 1 to 20.
- ✓ **Hue:** Default is 16
  Press the button "◄ / ►" to adjust the hue from 1 to 32.
- ✓ **Saturation:** Default is 20.
  Press the button "◄ / ►" to adjust the saturation from 1 to 32.
- ✓ **Sharpness:** Default is 12.
  Press the button "◄ / ►" to adjust the sharpness from 1 to 16.

Record Setup

Click "Record Setup" on the Main Menu.



Auto Record

Auto Record is utilized to set the period (OFF, 10Sec, 20Sec, 30Sec, 40Sec, 50Sec or 60Sec) within which the DVR will automatically start recording. Default value is "30Sec". This feature is particularly useful in automatically re-starting your DVR recording in case of an abnormal shut down.

The DVR will not re-start recording when set this function "OFF".

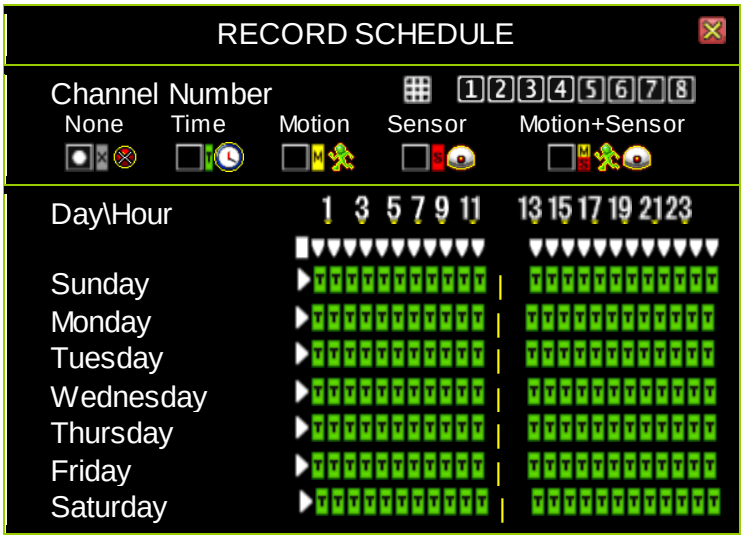
Activate Performance Gains

The function enables system auto increase the recording power to the heavy loading channel from the not triggered or not recording channels.

Enable this function makes "Record Performance Gains" at "Channel Recording Setup" is validated.

Record Scheduler

Record Scheduler is a menu charting the recording schedule of a particular channel or all channels for the whole day (24 hours) and the entire week (7 days).
Default setting is "Time Record".



Channel Number

Select the icon "▦" to setup for all channels at one time.

Select the icons "1" ~ "4" to individually setup of each channel.

Recording Mode Select

There are five recording modes:

None: Indicates that the channel is set to not record during this duration

Time: Indicates that the channel is set to continuously record during this duration

Motion: Indicates that the channel is set to motion-triggered recording during this duration

Sensor: (Optional) indicates that the channel is set to record when the sensor is triggered during this duration. NOTE: This feature is not included in the 4-channel ENXDVR-4C.

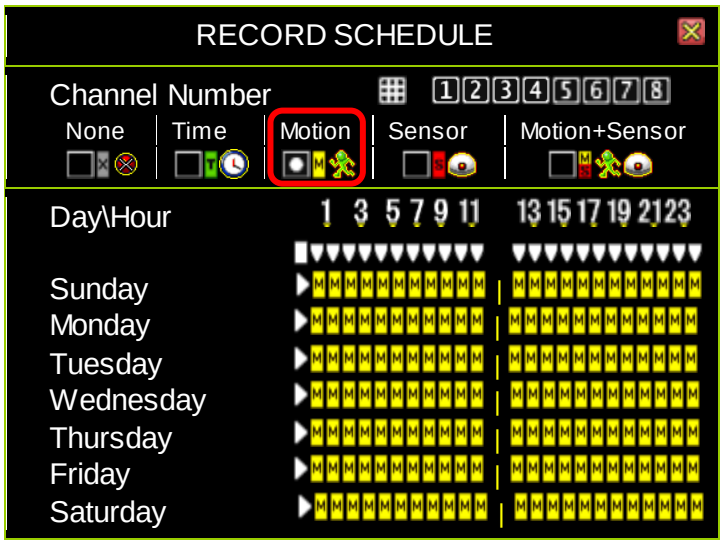
Motion plus Sensor (optional): Indicates that the channel is set to detect either triggering events caused by motion or from the sensor. This is an optional feature only for DVR unit that supports "Sensor". When this is set to a non supported DVR (ex: ENXDVR-4C) only the Motion will work.

NOTE When "Motion Mode" is set for the recording schedule. Remember to complete the "Motion Setup" at the main menu of "Detector Setup" - otherwise it will not be able to record during the period set on "Motion Mode".

Press the icon "▯" to set the recording mode globally: the whole week (7 days) and the whole day (24 hours) are in the same mode throughout.

The following example shows that the entire week (all 7 days) and the whole day (all 24 hours) are set to the "**Motion**" recording mode.

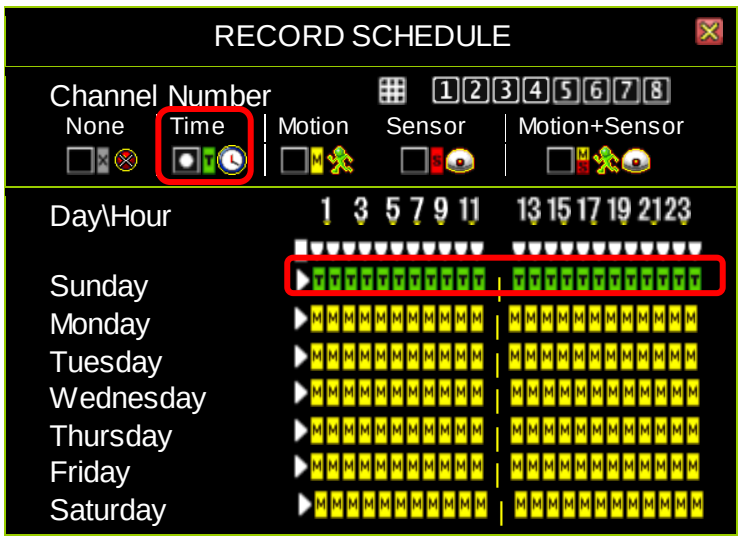
Select "**Motion**" recording mode, press the icon "▯" and press ""↵".



Press the icon "▶" (located after the name of each day) to set every hour of an entire day to operate in the same mode.

The following example shows that on Sunday, the whole day is set to the "**Time**" recording mode.

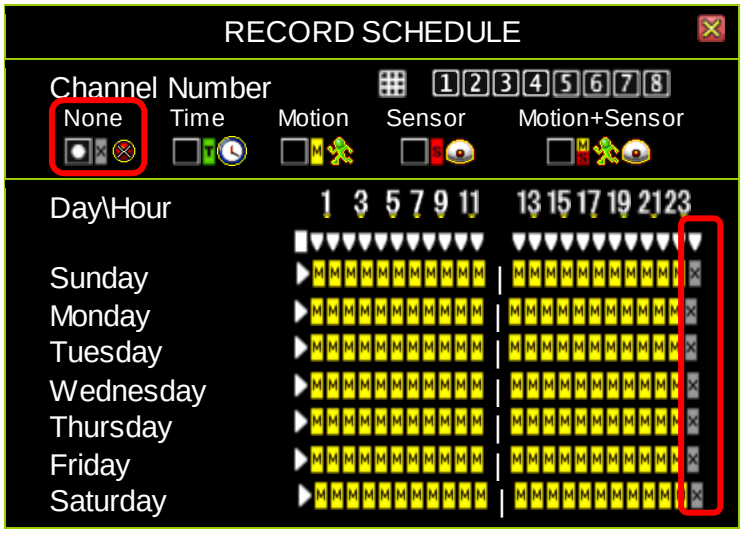
Select "**Time**" recording mode, press the icon "▶" and press ""↵".



Press the icon "▼" to set the same mode for a specified time every day.

The following example shows that from 23:00 to 24:00 (11:00pm to 12:00mn) everyday there is no recording (set to "**None**" recording mode).

Select "**None**" recording mode, press the icon "▼" and press ""↵".

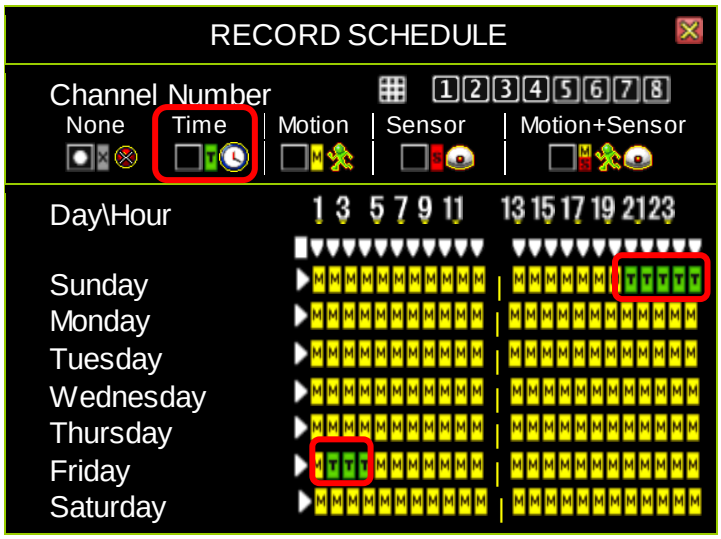


You can also specifically set the recording mode for a particular time and day.

The following example shows that on Sunday, from 19:00 to 24:00 (7:00pm to 12:00mn), and on Friday, from 2:00 to 4:00 (2:00am to 4:00am), are set to the "**Time**" recording mode.

Select the recording mode first. Move the cursor and click the icon "", "", "", "" or "" to change mode on the timetable.

Select "**Time**" recording mode, move the cursor and click the period of icons "" change to "" and press ""↵".

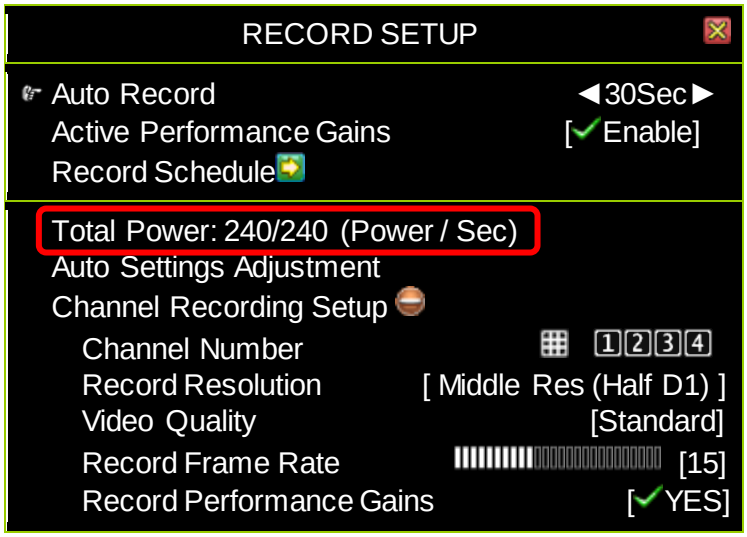


Total Power

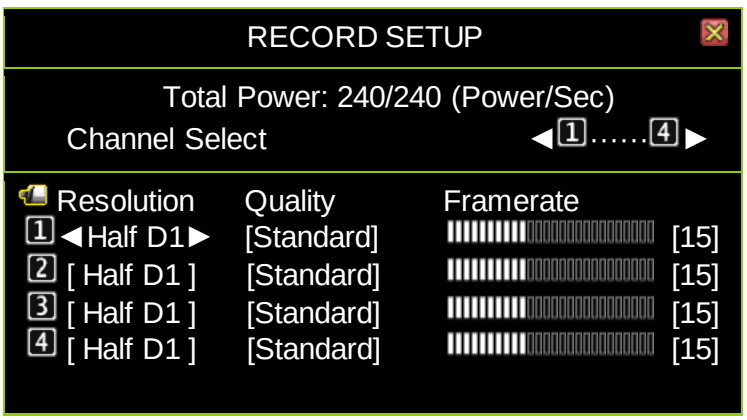
Total Power: 240/240 (Power / Sec)

It shows the number of recording power that has been allocated and the total number of recording power.

The Total Power for 4Ch is 240/240 (Power / Sec) NTSC. For PAL, the Total Power for 4Ch is 200/200 (Power / Sec)



To distribute the recording power into four channels, click the total power (as indicated above).



Video Resolution, Quality and Frame Rate Setting for each channel

Resolution:
Press the button "◄ / ►" to adjust the resolution from CIF, Half D1 and D1 for individual channel.

Quality:
Press the button "◄ / ►" to adjust the resolution from Lowest, Low, Standard, High and Highest for individual channel.

Frame rate:
Press the button "◄ / ►" to adjust the frame rate from 0 to max value for individual channel. The DVR will not be recording if the frame rate value is 0.

Auto Settings Adjustment

This function can automatically allocate the recording power under the selected record resolution.

When all the channels are set at the same resolution, the "**Auto Settings Adjustment**" can automatically allocate the frame rate to every channel.

When the setting applies to a specific channel or to specific channels with a particular resolution, video quality or frame rate the "**Auto Settings Adjustment**" feature automatically allocates the remaining frame rate among the other channels.

Channel Recording Setup

The Channel Recording Setup is used to adjust the resolution, quality, frame rate and performance gains of recording.

Channel Number

Select the icon " " to setup all channels at one time.

Select the icons " " ~ " " (for 16Ch) to individually setup of each channel.

Recording Resolution

Select the recording resolution for each or all channels as:

» D1: 704x480 / 60fps (NTSC); 704x576 / 50fps (PAL)

» Half D1: 704x240 / 120fps (NTSC); 704x288 (PAL) (Default)

» CIF: 352x240 / 120fps (NTSC); 352x288 (PAL)

Video Quality

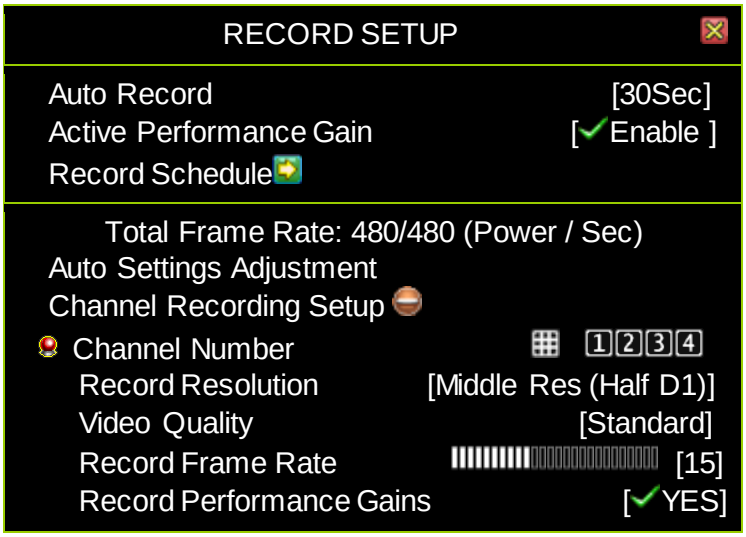
Video image quality settings can be Highest, High, Standard, Low, and Lowest. Default is Standard.

Higher video quality provides a much clearer image for playback but can utilize a much larger hard drive space with a larger file size.

Record Frame Rate

The recording frame rate for each or all channels may be set from 0~30 fps for NTSC or 0~25 fps for PAL.

NOTE If the frame rate is set to 0, the DVR will not be recording.

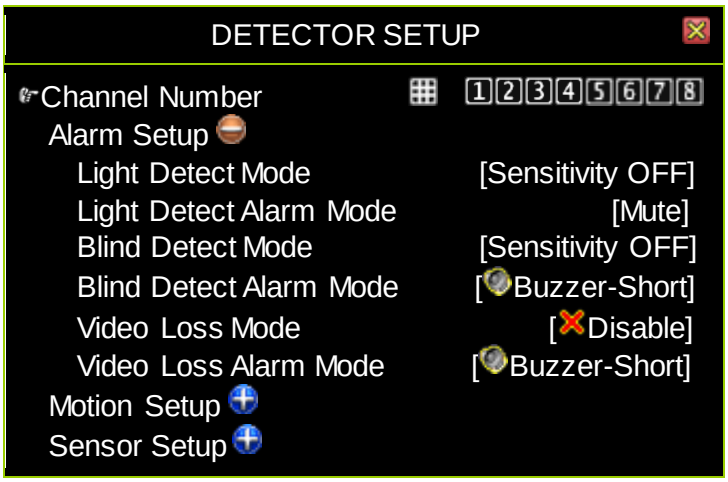

RECORD SETUP
Auto Record [30Sec]
Active Performance Gain [Enable]
Record Schedule
Total Frame Rate: 480/480 (Power / Sec)
Auto Settings Adjustment
Channel Recording Setup
Channel Number 1 2 3 4
Record Resolution [Middle Res (Half D1)]
Video Quality [Standard]
Record Frame Rate [15]
Record Performance Gains [YES]

Record Performance Gains

The "Record Performance Gains" enable the system to automatically increase the system power on the heavy loading channel, taking power from the un-triggered, unutilized or non- recording channels. This function can apply for one or all channels.

Detector Setup

Click "Detector Setup" on the Main Menu. (For ENXDVR-4C model, the ALARM is disabled, only the Buzzer and Buzzer-Short can be use)


DETECTOR SETUP
Channel Number 1 2 3 4 5 6 7 8
Alarm Setup
Light Detect Mode [Sensitivity OFF]
Light Detect Alarm Mode [Mute]
Blind Detect Mode [Sensitivity OFF]
Blind Detect Alarm Mode [Buzzer-Short]
Video Loss Mode [Disable]
Video Loss Alarm Mode [Buzzer-Short]
Motion Setup
Sensor Setup

Channel Number

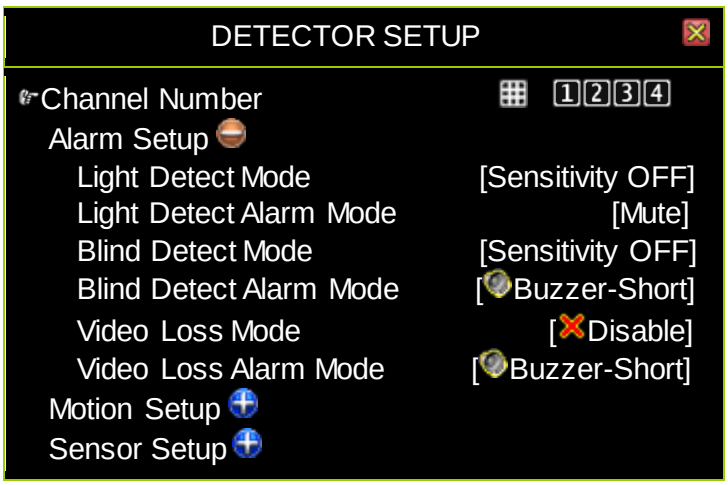
Select the icon "⊞" to setup for all channels at one time.

Select the icons "1" ~ "4"to individually setup of each channel.

Alarm Setup (Optional)

Alarm Setup is accessed to configure the alarm mode of each channel, individually, or for all channels, simultaneously.

NOTE: ENXDVR-4C only works on Buzzer and not on Alarm even though you may see Alarm in the selection.



Light Detect Mode

This mode will be triggered when the video input and when the light from the environment becomes faint or becomes dark unexpectedly (close to complete darkness) or there is direct exposure by intense light. This mode is related to the ambient lighting of the DVR. The light intensity settings will have no effect when using the IR cameras.

Choose any of the following settings to adjust the sensitivity of light detection:

Sensitivity OFF: No sensitivity
Sensitivity Low: Low sensitivity level
Sensitivity Normal: Normal sensitivity level
Sensitivity High: High sensitivity level
Sensitivity Highest: Highest sensitivity level

Light Detect Alarm Mode

Select the alarm mode when the Light Detect Mode is triggered.

Mute: No beep whatever loss of light or not.
Buzzer-Short: Slow beeping sound from buzzer on main board.
Buzzer-Long: Fast beeping sound from buzzer on main board.
Alarm-Short: Short sound coming from the alarm.
Alarm-Long: Prolonged sound coming from the alarm.

Blind Detect Mode

This mode will be triggered when there is no video input (in total darkness) whether the security camera is purposely covered or blocked or there is a direct exposure to intense light. This detects if there is a deliberate attempt to hide the view of the camera. The light intensity settings will have no effect when using the IR cameras.

Choose any of the following settings to adjust the sensitivity of blind detection:

Sensitivity OFF: No sensitivity
Sensitivity Low: Low sensitivity level
Sensitivity Normal: Normal sensitivity level
Sensitivity High: High sensitivity level
Sensitivity Highest: Highest sensitivity level

Blind Detect Alarm Mode

Select the alarm mode when the Blind Detect Mode is triggered.

Mute: No beep whatever loss of light or not.
Buzzer-Short: Slow beeping sound from buzzer on main board.
Buzzer-Long: Fast beeping sound from buzzer on main board.
Alarm-Short: Short sound coming from the alarm.
Alarm-Long: Prolonged sound coming from the alarm.

Video Loss Mode

The Video Loss Mode is for detecting the loss of the camera video input. This is when the camera cable is cut or cable disconnection.

Enable: Activates video loss detection
Disable: Deactivates video loss detection

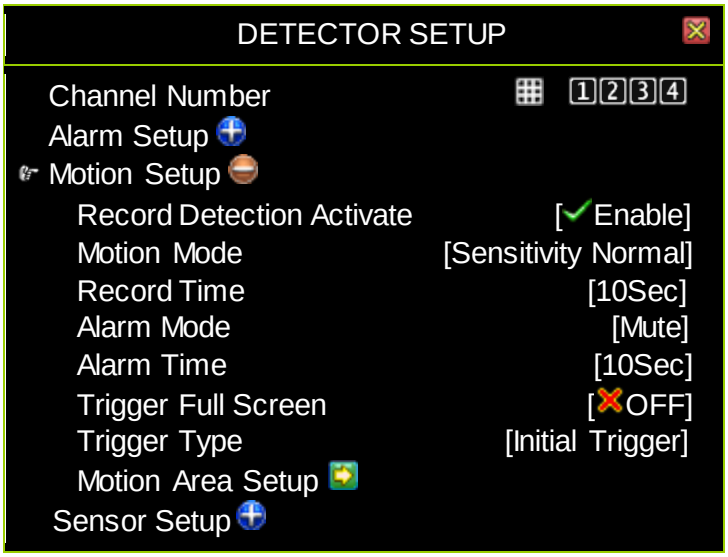
Video Loss Alarm

Select the alarm mode when the Video Loss Mode is triggered.

Mute: No beep whatever video loss or not.
Buzzer-Short: Slow beeping sound from buzzer on main board.
Buzzer-Long: Fast beeping sound from buzzer on main board.
Alarm-Short: Short sound coming from the alarm.
Alarm-Long: Prolonged sound coming from the alarm.

Motion Setup

Motion Setup is accessed to configure the motion mode for the DVR channels.

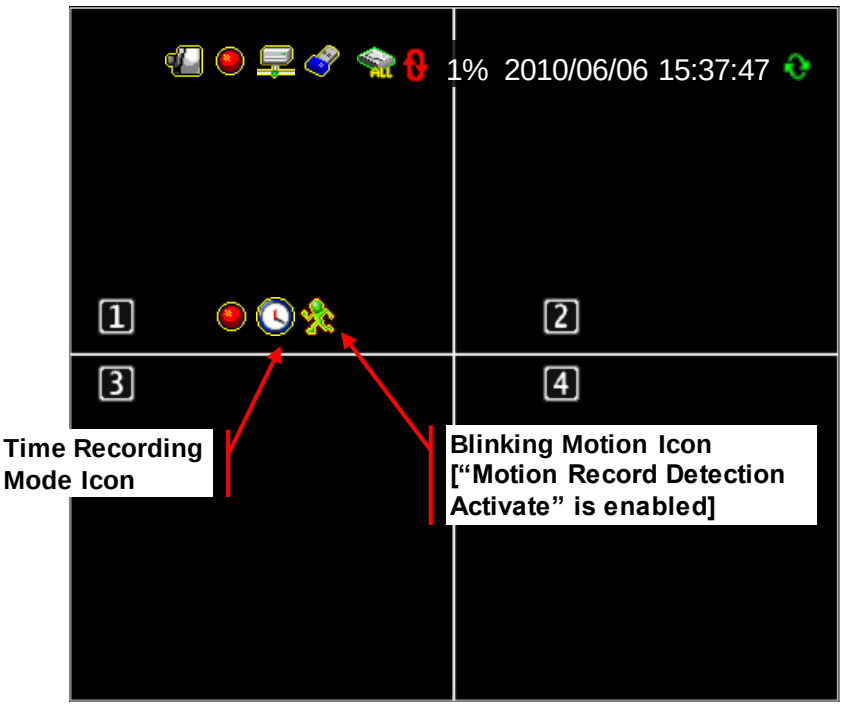


NOTE Remember to setup the motion mode period on "Record Schedule" at the main menu of "Record Setup" after completing "Motion Setup". Otherwise, the system will be recording in the default schedule recording mode.

Record Detection Activate (Motion Setup)

This feature activates the motion setup (allowing you to detect unusual movements) and enables the system to log motion-triggered events even when your DVR setting is in "Time Recording" mode.

✓ **Enable**: Activates motion-triggered detection even when DVR is in a different recording mode. When enabled, a blinking motion icon will be found alongside the Time Recording mode icon when motion is detected.



Disable: Deactivates motion-triggered detection even when DVR is in a different recording mode

NOTE

Remember to specify the area you would like monitor using the "Motion Area Setup" screen. Click on a particular channel you would like to set and then click on **Motion Area Setup** to define the particular area you would like to monitor.

Motion Mode

Choose any of the following settings to adjust the motion sensitivity parameter:

Sensitivity OFF: No sensitivity
Sensitivity Low: Low sensitivity level
Sensitivity Normal: Normal sensitivity level
Sensitivity High: High sensitivity level
Sensitivity Highest: The highest sensitivity level

Record Time

Set the recording time when the Motion Mode is triggered.

The recording time as 5sec, 10sec, 15sec, 20sec, 25sec, 30sec, 45sec, 60sec, 90sec, 120sec, 150sec or 180sec.

Alarm Mode

NOTE: Alarm-Short / Alarm-Long modes are not supported in ENXDVR-4C units though this may appear in the selection menu.

Select the alarm mode when Motion Mode is triggered.

Mute: No beep whatever motion is detected or not.
Buzzer-Short: Slow beeping sound from buzzer on main board.
Buzzer-Long: Fast beeping sound from buzzer on main board.
Alarm-Short: Short sound coming from the alarm. See "Note" above.
Alarm-Long: Prolonged sound coming from the alarm. See "Note" above

Alarm Time

The Alarm Time is the duration of the beep and may be set to: "Nonstop"(no stop), 5sec, 10sec, 15sec, 20sec, 25sec, 30sec, 35sec, 40sec, 45sec, 50sec, 55sec or 60sec.

Trigger Full Screen

Trigger Full Screen is the duration of the of full-screen display when a channel is triggered. This may be set to a period between 1 to 30 seconds.

OFF: It will not display on full screen when the channel has been triggered. Also, the trigger area will turn to a red color.

Trigger Type

There are two trigger types: **Initial Trigger** and **Continuous Trigger**.

Initial Trigger

When channel has been triggered, the triggering event will be displayed on full screen for the duration of the period set in **Trigger Full Screen**. During that period, this channel will ignore any other triggering events.

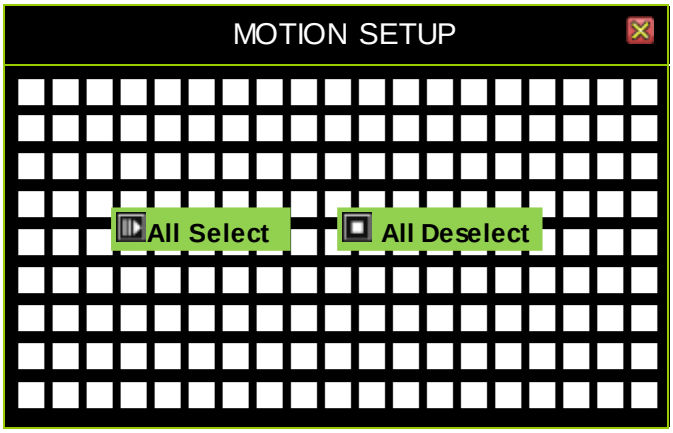
Continuous Trigger:

When channel has been triggered, the triggering event will be displayed on full screen for the duration of the period set in **Trigger Full Screen**. The channel is, however, still actively monitoring during that period. Should there be a new triggering event, this channel will display the more recent event and restart the display period.

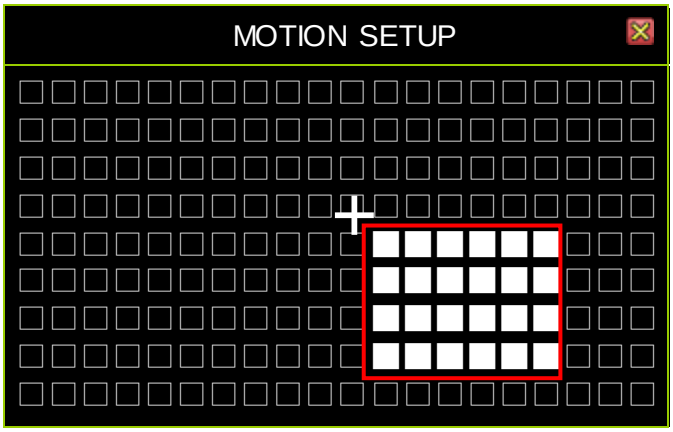
Motion Area Setup

The Motion Setup allows the user to block multi areas on screen for every single channel as motion detection area.
Select a channel to set.

All Select: Highlights the entire view displayed on the screen (as seen by the camera)
All Deselect: Removes the selection from the entire view displayed on the screen (as seen by the camera)



Use the mouse to move around and select the area. After positioning, click on the right button of the mouse to save it.

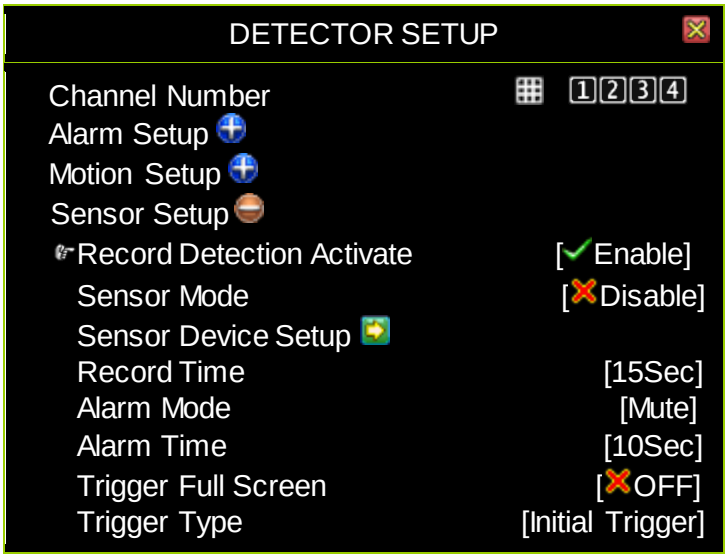


CAUTION There will be no response in Motion Mode when the Motion Area Setup has not been completed.

Sensor Setup (Optional)

NOTE Sensor function is not included in the ENXDVR-4C unit model. Any functions that follow the Sensor or correlates with the Sensor functionality are also disabled.

Sensor Setup is accessed to configure the sensor mode for each channel or all channels.

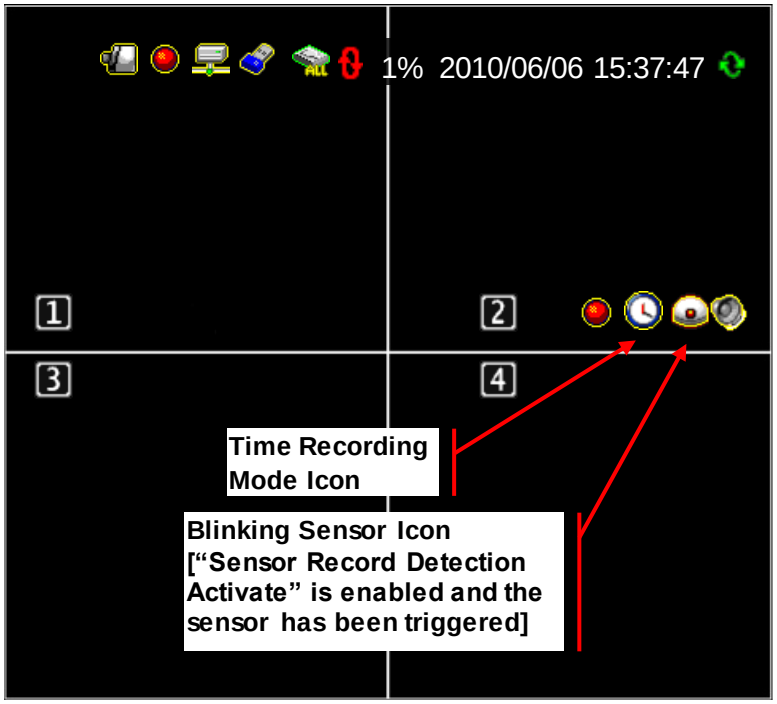


NOTE Remember to set up the sensor mode recording for your desired period on the "Record Schedule" menu in "Record Setup" after completing "Sensor Setup". Otherwise, the system will still be recording in the default recording mode.

Record Detection Activate (Sensor Setup)

This feature activates the sensor setup (allowing you to detect unusual movements picked up by the sensor) and enables the system to log sensor-triggered events even when your DVR setting is in "Time Recording" mode.

✓ **Enable**: Activates sensor-triggered detection even when DVR is in a different recording mode. When enabled, a blinking sensor icon will appear beside the Time Recording mode icon once the sensor is tripped.



Disable: Deactivates sensor-triggered detection even when DVR is in a different recording mode (i.e. Time Recording Mode)

NOTE The sensors need to be properly mapped to a channel and set according to their operation characteristics (i.e. normally open or normally closed) when using Record Detection Activate in the Sensor Setup.

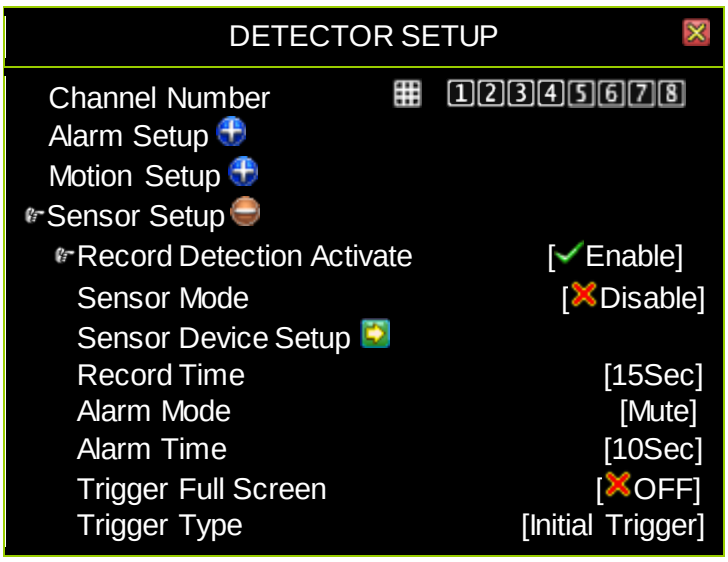
Sensor Mode

This parameter enables or disables sensor mode detection.

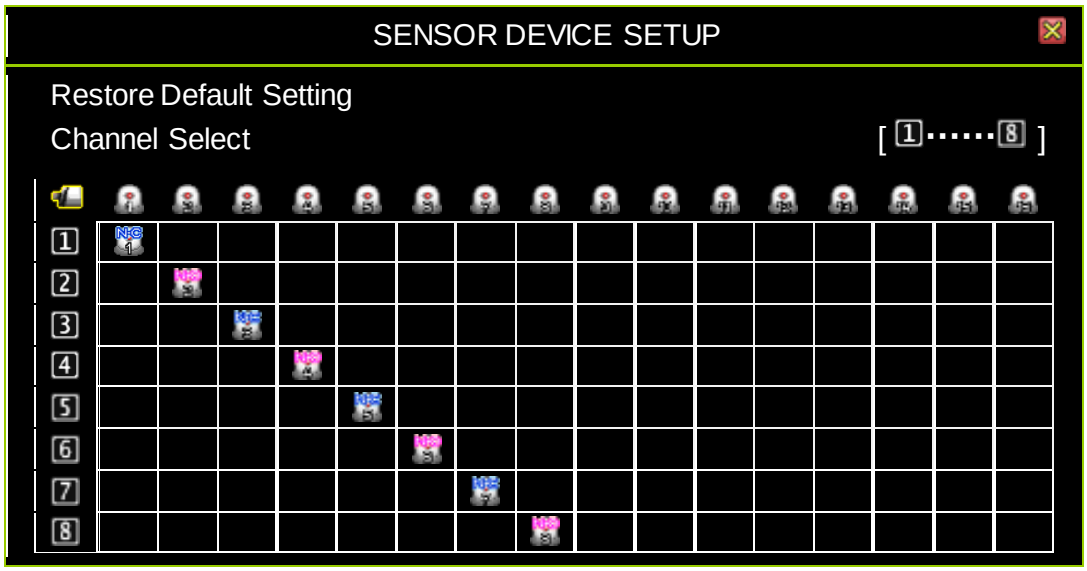
Enable: Activates sensor mode for Sensor Recording Mode
Disable: Deactivates sensor mode for Sensor Recording Mode

Sensor Device Setup

This feature is to easily map a sensor port to a particular channel without having to remove any wires.



Click on a channel you would like to map with a sensor. Select whether the sensor type is normally open or closed. It depends on the characteristics of the sensor you intend to use.



Normally – Open: The sensor type is in a normally open state.
Normally – Close: The sensor type is in a normally closed state.

Record Time

Set the recording time when the Sensor Mode is triggered.

The recording time as 5sec, 10sec, 15sec, 20sec, 25sec, 30sec, 45sec, 60sec, 90sec, 120sec, 150sec or 180sec.

Alarm Mode

NOTE Alarm function is not included in the ENXDVR-4C unit model. Any functions that follow the Alarm or correlates with the Alarm functionality are also disabled.

Select the alarm mode when Sensor Mode is triggered.

Mute: No beep whatever motion is detected or not.
Buzzer-Short: Slow beeping sound from buzzer on main board.
Buzzer-Long: Fast beeping sound from buzzer on main board.
Alarm-Short: Short sound coming from the alarm.
Alarm-Long: Prolonged sound coming from the alarm.

Alarm Time

The Alarm Time is the duration of the beep and may be set to: "Nonstop"(no stop), 5sec, 10sec, 15sec, 20sec, 25sec, 30sec, 35sec, 40sec, 45sec, 50sec, 55sec or 60sec.

Trigger Full Screen

Trigger Full Screen is the duration of the of full-screen display when a channel is triggered. This may be set to a period between 1 to 30 seconds.

OFF: It will not display on full screen when the channel has been triggered. Also, the trigger area will turn to a red color.

Trigger Type

There are two trigger types: **Initial Trigger** and **Continuous Trigger**.

Initial Trigger

When the sensor has been triggered, the triggering event will be displayed on full screen for the duration of the period set in **Trigger Full Screen**. During that period, this channel will ignore any other triggering events.

Continuous Trigger:

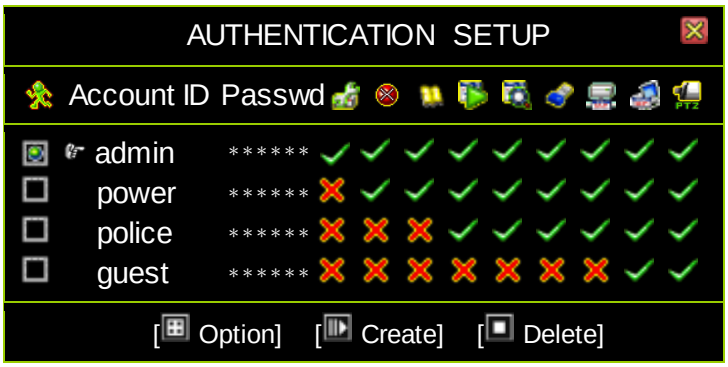
When the sensor has been triggered, the triggering event will be displayed on full screen for the duration of the period set in **Trigger Full Screen**. The sensor is, however, still actively monitoring during that period. Should there be a new triggering event, this channel will display the more recent event and restart the display period.

Authentication Setup

Authentication Setup is to manage the authorization of user accounts, passwords, and permissions. Encore strongly suggests creating a backup "admin" account with password that is easy to remember. This is also true when you change the password of the built-in "admin" user account and forgot or when its admin rights were removed accidentally. When admin and its original rights are no longer accessible or removed there is no backdoor to recover but to reset the whole system to the factory default. When the system is reset to the factory default, all previous settings will be change back to the default values, therefore, you will lose all settings you have changed previously.

Click on the Authentication Setup icon or "Authentication Setup" on the Main Menu. The factory default setup is shown.

Click the following icons for authority management

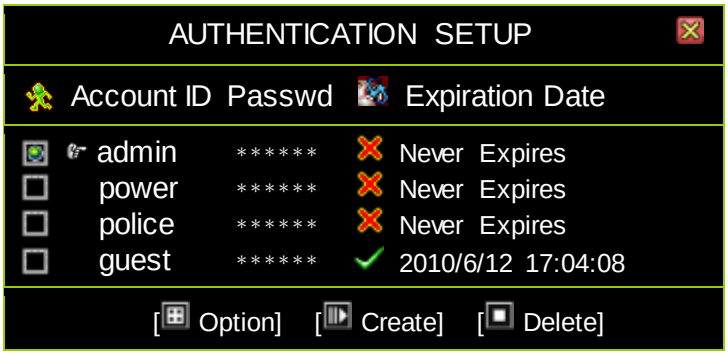


Click the icons for setting:

: Indicates a disabled account
: Indicates an active account
: Permits access to function
: Disables access to function
: Creates a new account
: Deletes an account

Account ID: Enter characters as the account ID
Passwd (Password): By entering six **numbers** as password

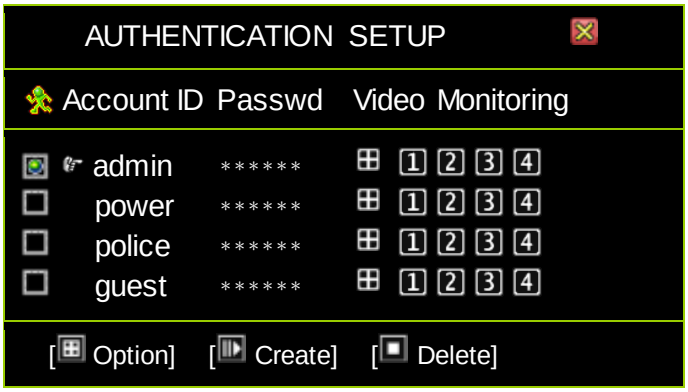
Click "[Option] for expiration date setup


AUTHENTICATION SETUP
Account ID Passwd Expiration Date
admin ****** Never Expires
power ****** Never Expires
police ****** Never Expires
guest ****** 2010/6/12 17:04:08
[Option] [Create] [Delete]

Click the icons for setting:

: No expiration date : Sets the expiration date

Click "[Option] for channel monitoring setup

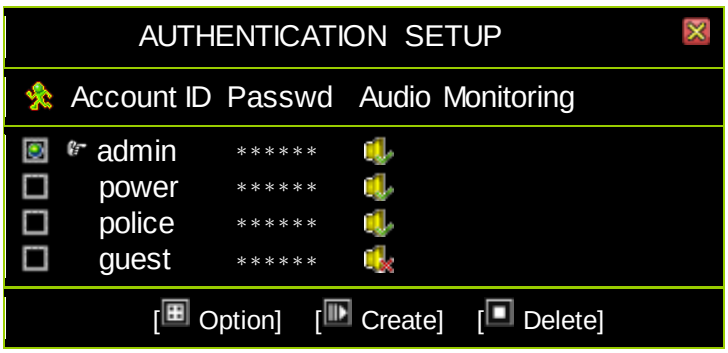

AUTHENTICATION SETUP
Account ID Passwd Video Monitoring
admin ****** 1 2 3 4
power ****** 1 2 3 4
police ****** 1 2 3 4
guest ****** 1 2 3 4
[Option] [Create] [Delete]

Click the icons for setting:

Enables the account to monitor all channels. The icon turns orange when enabled.

"1 ~ 4": Enables the account to monitor the specific channels. The icon turns green when enabled. Disabled accounts are indicated by white icons.

Click "[Option]" for audio monitoring setup



Click the icons for setting:
: Allows the user to monitor audio recording from the channels
: Does not allow the user to monitor audio recording from the channels

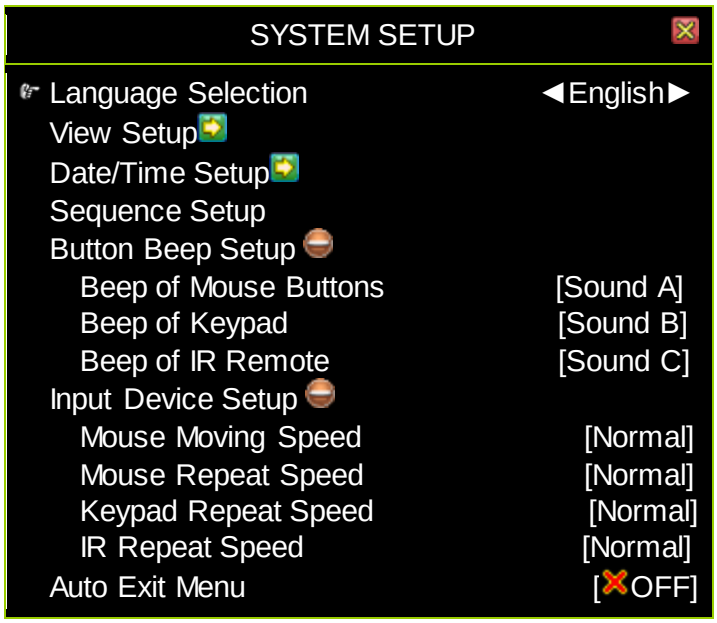
NOTE Disabling all accounts means that access is available to all users without a password.

NOTE Disabling all users to access the specific function means that all users can access only specific functions.

System Setup

System Setup sets the Language, Viewing, Date/Time, Sequence, Button Beep, Input Device, and other relevant parameters.

Click on the System Setup icon or "System Setup" on the Main Menu.

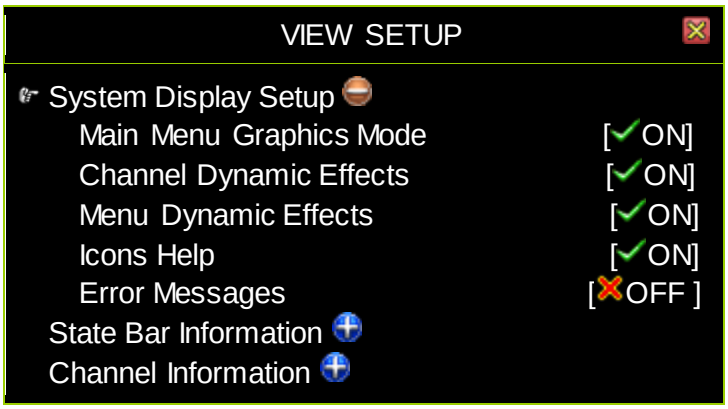


Language Selection

Language Selection is used to select the language for the on-screen display (OSD) Menu.

View Setup

View Setup is for choosing to display certain illustrations and DVR information.



Main Menu Graphics Mode

Sets the main menu displayed by graphic icons or text mode.

Graphics Mode

Text Mode

Channel Dynamic Effect

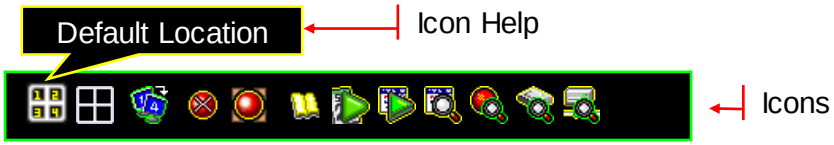
Enables or disables the channel moving effects during channel dynamic drag and drop.

Menu Dynamic Effects

This pertains to the setting for the sub-menu to scroll in (when the icon is clicked) or scroll out (when the icon is clicked). If enabled, the sub-menu would roll out smoothly and if disabled, the sub-menu would have a more abrupt appearance on the screen.

Icon Help

Enables or disables the help icon text description to appear when the mouse hovers over the icons.

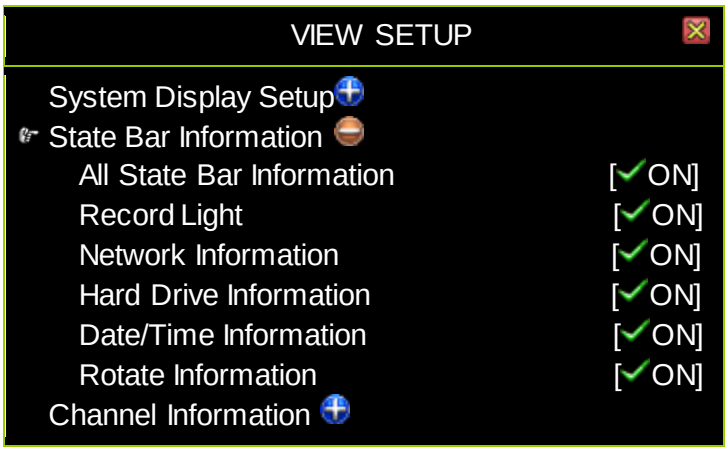


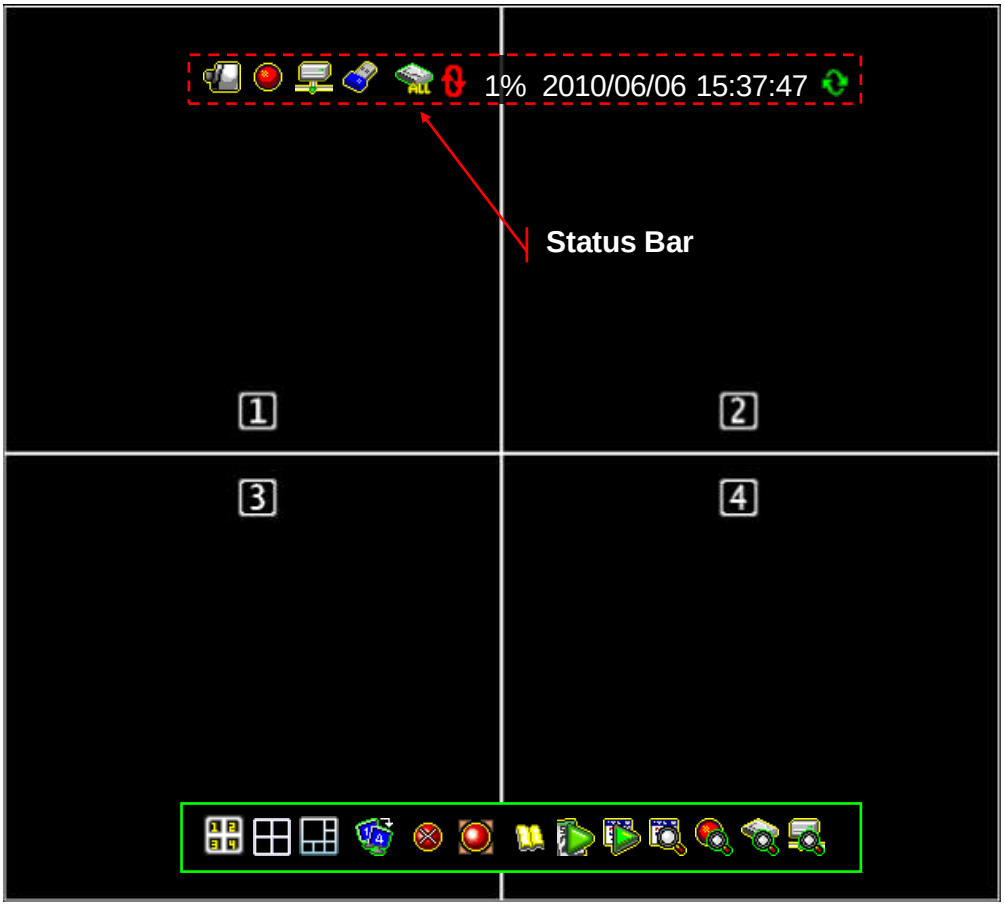
Error Message

Enables or disables system to show the log when an error occurs.

Status Bar Information

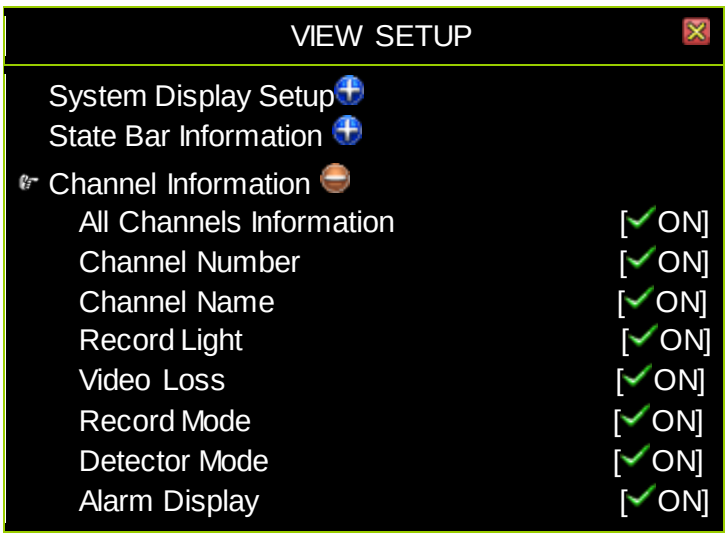
Determines how system status information is set and shown.

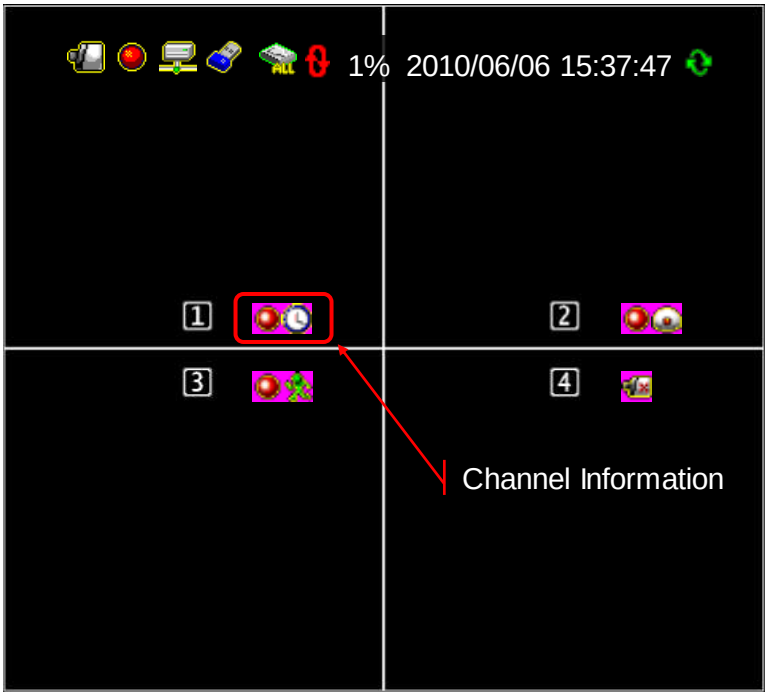




Channel Information

Enable or disable the channel information icons is set and shown on the home screen.

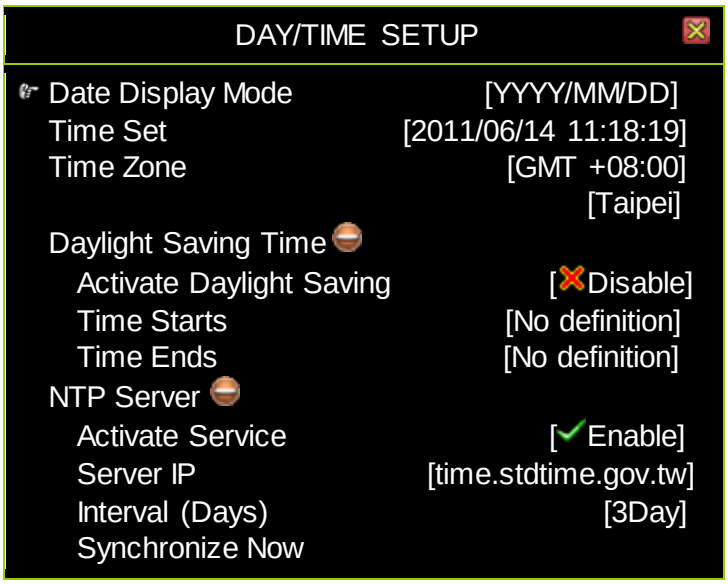




1 ~ 4 (4Ch)): The Channel Number Icon
: Recording Light : Video Loss (Flashing)
: Record Mode (Not Flashing. Some DVR don't have the sensor mode icon)
: Detection Mode (Flashing. Some DVR don't have the sensor mode icon)

Date/Time Setup

Date/Time Setup Menu sets relevant information on date and time.



Date Display Mode

Date Display Mode is used to choose a date format for the state information. The allowable formats are YYYY/MM/DD, DD/MM/YYYY, and MM/DD/YYYY.

Time Set

"Time Set" is for adjusting the date and time.

Time Zone

"Time Zone" is for adjusting time zone and location.

Daylight Saving Time

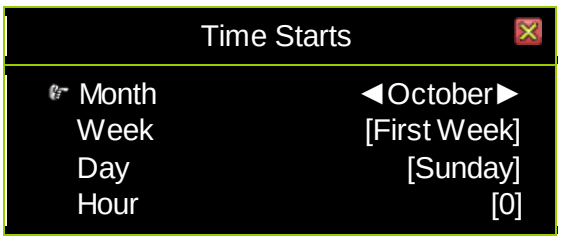
"Daylight Saving Time" is for adjusting the DST settings (for countries where it is applicable).

Activate Daylight Saving

"Activate Daylight Saving" enables or disables the daylight saving mode.

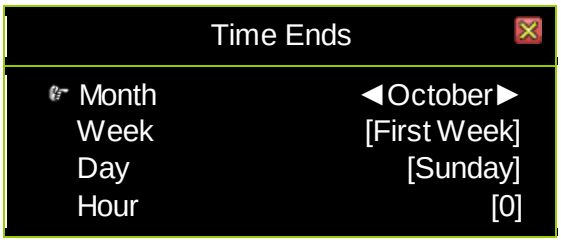
Time Starts

"Time Starts" indicates the start date of daylight saving time. The user can set the month, week number, day, and hour.



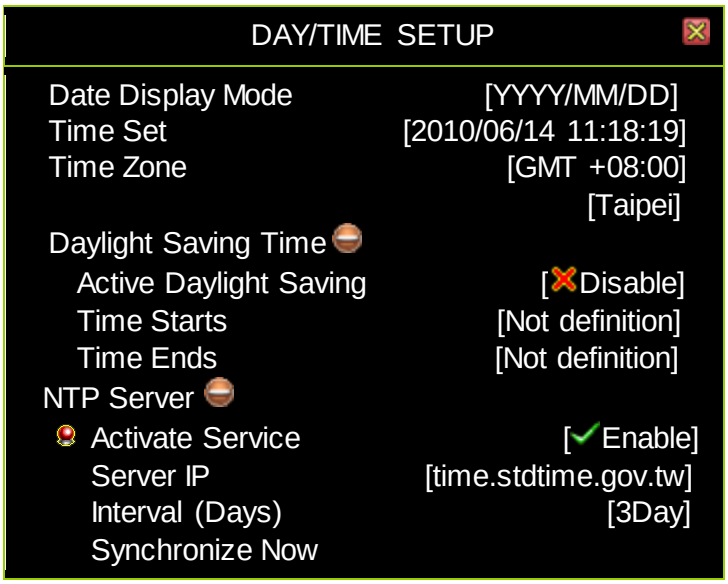
Time Ends

"Time Ends" indicates the end date of daylight saving time. The user can set the month, week number, day, and hour.



NTP Server

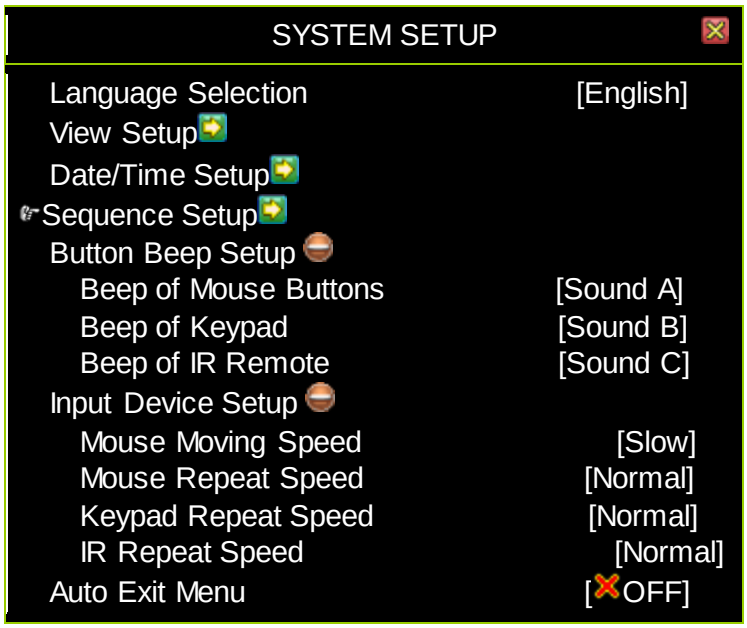
NTP Server allows for the synchronization of the day / time settings with the NTP server through internet.

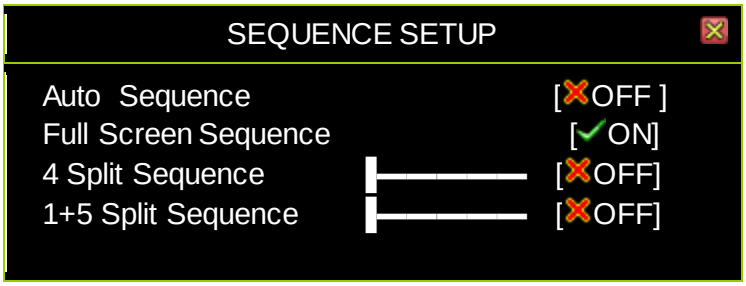


- ✓ **Activate Service**:
  Enable: Enable Synchronization
  Disable: Disable Synchronization
- ✓ **Server IP:** The IP address of NTP server (Maximum in 24 characters)
- ✓ **Interval (Days):** The frequency (number of days) of when the server is synchronized.
- ✓ **Synchronize Now:** Start synchronizing with NTP server now

Sequence Setup

The Sequence Setup Menu is for setting the channel rotation sequence period.





Auto Sequence

Enables automatic activation of sequence viewing within 10 sec, 20 sec, 30 sec, 40 sec, 50 sec or 60 sec. Default setting is OFF.

Full Screen Sequence

Enables or disables the full screen rotation period.

4 Split Sequence

Enables or disables the 4 split display rotation period.

1+5 Split Sequence

Enables or disables the 1+5 split display rotation period.

Operating Auto Sequence

Auto Sequence activates the sequence settings within a given time if the Auto Rotation icon has not been pressed. This is an explanation of setting the display sequence.

If Auto Sequence is ON and all the other sequence settings (i.e. full screen, 4 split, etc.) are OFF, the screen displays will remain static. The (Auto Rotation) icon will not appear on the Control Bar.

If Auto Sequence and Full Screen Sequence are both ON, the display will enter the single channel view within the time set on Auto Sequence.

If Auto Sequence is OFF and Full Screen Sequence is ON, the display will enter the single channel view only when the (Auto Rotation) icon is clicked.

If Auto Sequence and any one of the Split Sequences are both ON, the display will enter the specified view within the time set for Auto Sequence.

If Auto Sequence is OFF and any one of the Split Sequences is ON, the display will enter the single channel view within the time set on the Split Sequence.

NOTE A quick way to determine if the display is in sequence mode is by checking if the (Channel Rotation indicator) icon appears on the State bar.

Button Beep Setup

The Button Beep Setup configures the type of beeping sound for the mouse, keypad, and IR remote operations. The sound type can be either: [Mute], [Sound A], [Sound B], or [Sound C].

- ✓ **Beep of Mouse Buttons:** Mute, Sound A, Sound B, Sound C
- ✓ **Beep of Keypad:** Mute, Sound A, Sound B, Sound C
- ✓ **Beep of IR Remote:** Mute, Sound A, Sound B, Sound C

NOTE Keypad Beep is available for models equipped with keypad.

Input Device Setup

Input Device Setup is used to set the speed of the following input devices: mouse, keypad and IR Remote. The speeds can be assigned the following settings:

- ✓ **Mouse Moving Speed:** Slow, Normal, Fast
- ✓ **Mouse Repeat Speed:** OFF, Slow, Normal, Fast
- ✓ **Keypad Repeat Speed:** OFF, Slow, Normal, Fast
- ✓ **IR Repeat Speed:** OFF, Slow, Normal, Fast

NOTE Keypad repeat speed is available for models equipped with keypad.

Auto Exit Menu

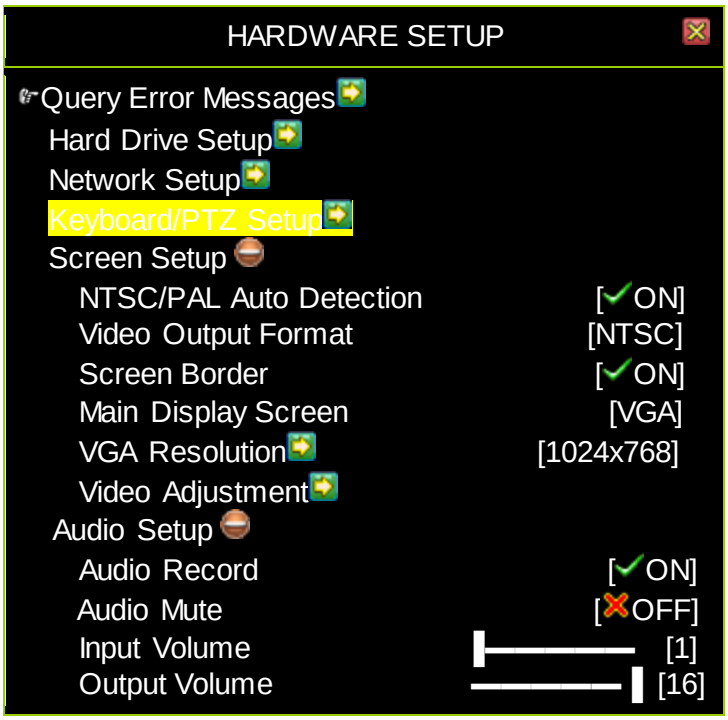
The Auto Exit Menu configures the menu to automatically revert back to the main display screen after a specified period.

Set Auto Exit Menu to [OFF] for manual exit. Otherwise, the menu will exit after 10, 20, 30, 40, 50 or 60 seconds, depending on the set time.

Hardware Setup

Hardware Setup is the menu for configuring hardware parameters including error message, hard drive, network, keyboard/PTZ (optional), screen display and audio function.

Click on the Hardware Setup icon or "Hardware Setup" on the Main Menu.



Query Error Message

The Query Error Message window shows all error messages.

[View Time]: Sort error messages by time of occurrence.

[Clear Message]: Clear all error logs.

Hard Drive Setup

The Hard Drive Setup menu displays hard disk information and allows the user to enable the HDD overwriting.

HARD DRIVE SETUP
Overwrite Enable [YES]
Max. Recording Days [None]
First Hard Disk
Model [WDC WD7500AYPS-01ZKB]
HDD Size [715403MB]
Max. Recording Days [None]
Record Start Time [2006/06/11 15:26:18]
Record End Time [2011/06/14 13:13:30]
Standard Record Size [2438/715351 MB 35%]
Standard number of event [396/357376 20%]
Format Hard Drive

Overwrite enable

[YES]: The hard drive automatically writes over the oldest video on the hard drive when it runs out of space for recording.

[NO]: Recording will stop when the hard drive is full.

Max. Recording Days

This function enables to specify the days of recording data which is retained in the hard drive. It will be required to format the hard drive once you change the limited days. Those expired recording data will be not found during event search.

Once you have selected the number of days, click on "Format Hard Drive".

You can set the maximum recording days as from 1 to 30 or "None" not to limit.

CAUTION If you decide to move or re-assign your DVR to a different system with a different ruling on how long you can keep your videos, you have to reformat your hard drive to change the Max. Recording Days.

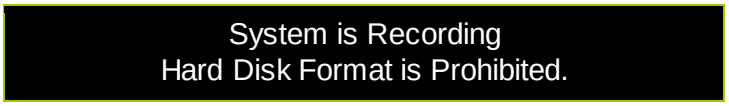
First Hard Disk

- **Model:** Automatically displays the hard drive model number.
- **HDD Size:** Automatically displays the hard drive size.
- **Max. Recording Days:** Displays the current setting for the maximum number of days recorded videos are retained.
- **Record Start Time:** Displays the day and time when the hard drive starts storing recorded data
- **Record End Time**: Displays the day and time of the last recording on the hard drive

- **Standard Record Size:** The total hard drive capacity in megabyte (MB) and the ratio of using space.
- **Standard Number of event**: Total number of record events / total capacity of events and the ratio of using space.

Format Hard Drive

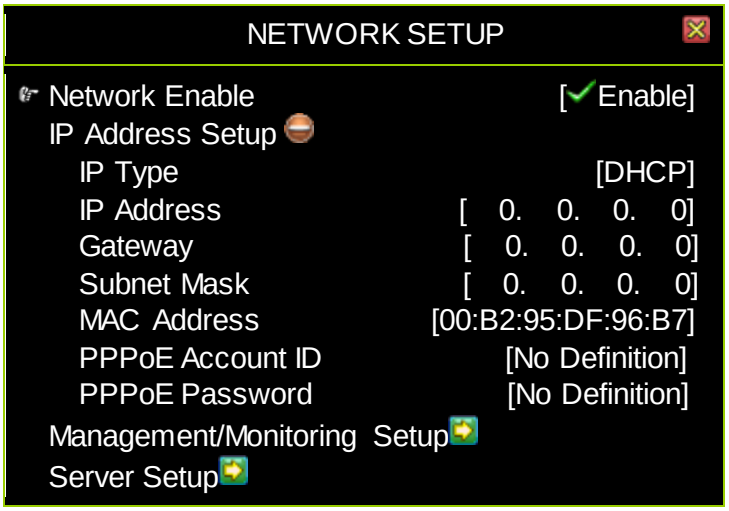
You cannot format the hard drive when the system is running in recording mode. When you attempt to do so, the following warning message will appear on the screen.



Network Setup

NOTE You must have a running network in the premises if you plan to have your surveillance systems accessible to remote users. Consult your MIS or Network Administrator for your router's setup of the IP address segment and port-forwarding rule for the DVR network setup.

Network Setup is for adjusting network configurations.



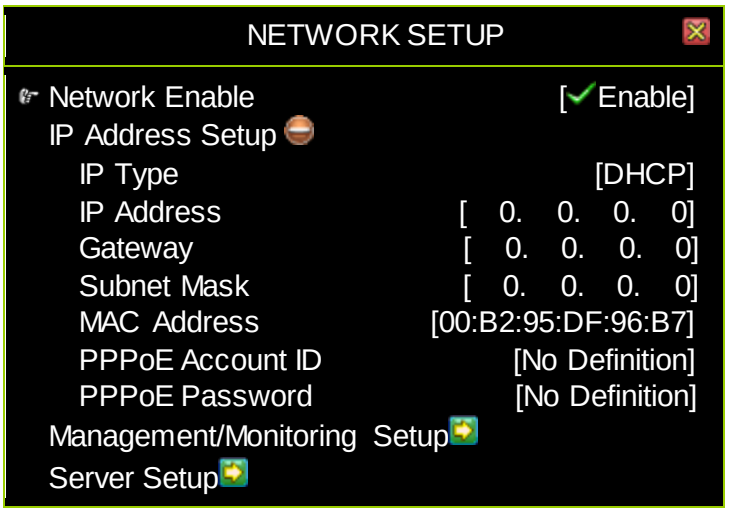
Network Enable

[Enable]: Network may be used

[Disable]: Network may not be used

IP Address Setup

The IP address acts as a locator or an identification number to enable a device on a TCP/IP network to locate other devices and interact with them. Certain parameters need to be set through IP Address Setup to ensure proper network communication.



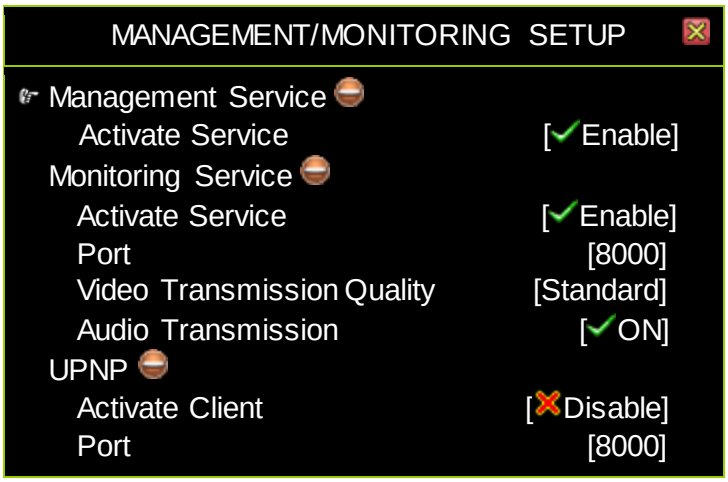
IP Type

There are two options for IP type: Static IP address and Dynamic IP address (DHCP and PPPoE).

- **Static IP Address:** User must manually define a static IP address. Contact the network administrator for this information.
- **DHCP:** System gets the IP address from the router or DHCP server. Contact the network administrator for this information.
- **PPPoE**: The Point-to-Point Protocol over Ethernet (PPPoE) is used mainly with DSL services where individual users connect to the DSL modem over Ethernet and in plain Metro Ethernet networks.
  Please input the PPPoE Account ID and Password provided by the ISP.
  (Note: Account ID maximum in 24 characters; Password maximum in 16 characters)
- **GATEWAY:** Define gateway IP address. **Contact the network administrator for this information.**
- **SUBNET MASK:** A sub network, or subnet, is a logically visible, distinctly addressed part of a single Internet Protocol network. Contact the network administrator for this information.
- **MAC Address:** Do not change the MAC address. Although the MAC address can be changed from the menu screen, it is not to change the MAC address. Leave it as it is. MAC address is a unique identifier assigned to most network adapters or network interface cards (NICs) by the manufacturer for identification. It has been set at dedicated address even reset the DVR.

Management / Monitoring Setup

The Management/Monitoring Setup menu addresses the management and monitoring service for remote DVR control and viewing from the internet (i.e. Internet Explorer) browser and PCViewer Utility Software.



Management Service

- **Activate Service:** Enables or disables the management service for allowing remote control from IE or PCViewer.

Monitoring Service

- **Activate Service:** Enables or disables the monitoring service for allowing remote viewing from IE or PCViewer.
- **Port:** The default port number is "8000" for DVR video and audio transmission. The range of port numbers is from 2048 to 32767. This can also be used as the web port.
- **Video Transmission Quality:** Selects the remote video transmission quality from Lowest, Low, Standard, High, and Highest.
- **Audio Transmission:** Enables [ON] or disables [OFF] audio transmission.

UPNP

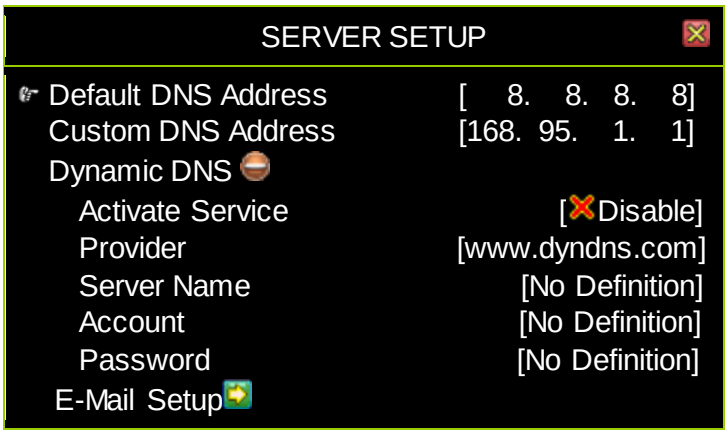
UPnP allows devices to automatically establish functional connections with other devices when connected to a network.

- **Activate Client:** Enables or disables the UPnP connection of the DVR
- **Port:** Specifies the streaming port for UPnP. This is typically an unused port.

NOTE You must have a running network in your premises if you plan to have your surveillance systems accessible to remote users. Consult your MIS or Network Administrator for your router's setup of the IP address segment and port-forwarding rule for the DVR network setup.

Server Setup

Configure the DNS server.



Default DNS Address

The Domain Name System (DNS) translates hostnames to IP addresses (default setting). If there is no DNS address setting or fail, DVR will go for Default DNS Address.

Custom DNS Address

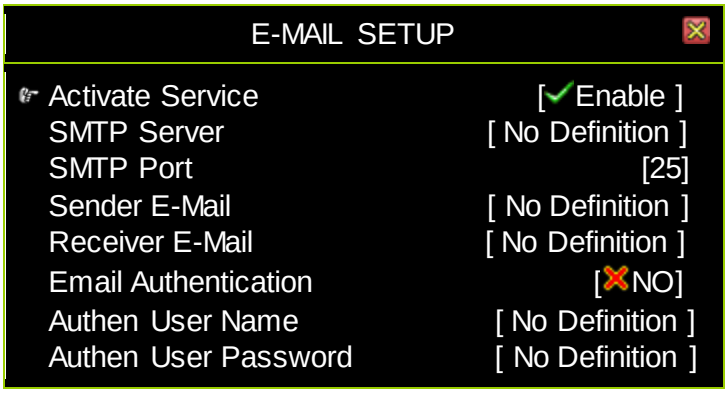
The Domain Name system (DNS) translate hostnames to IP addresses (customer setting).

Dynamic DNS

Dynamic DNS is a system that allows the domain name data held in a name server to be updated in real time. Please refer to the chapter "DynDNS Service Overview".

- **Activate Service:** Enable the Dynamic DNS service.
- **Provider:** The web site / IP Address of Dynamic DNS provider
- **Server Name:** Define a name of Dynamic DNS (Maximum in 35 characters)
- **Account:** The account name of Dynamic DNS (Maximum in 27 characters)
- **Password:** Password for Dynamic DNS. Please refer to **DynDNS Service** (Maximum in 27 characters)

E-Mail Setup



NOTE Consult or call your email server service provider or administrator if you are having difficulty finding the server data.

Configure the electronic mail server.

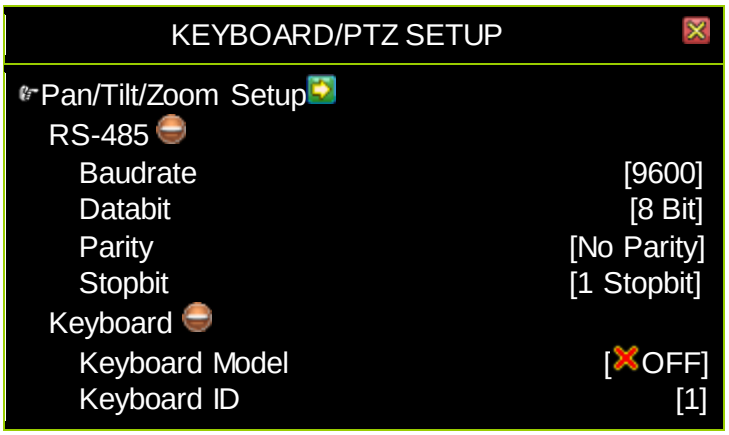
- **Activate Service:** Enable or disable the email feature of the DVR. This must be enabled in order to receive an email notification.
- **SMTP Server:** Specify the name of the mail server
- **SMTP Port:** Specify the port number used by the mail server. The default value is 25.
- **Sender E-Mail:** Specify the email address of the sender
- **Receiver E-mail:** Specify the email address of the recipient
- **Email Authentication:** Activate or deactivate the email account authentication. This is for identifying and verifying if the sender has been authorized. This is typically set to [YES] since most email server providers require this.
- **Authen User Name:** Specify the user name for email authentication
- **Authen User Password:** Specify the password for email authentication

Keyboard/PTZ Setup (Optional)

NOTE

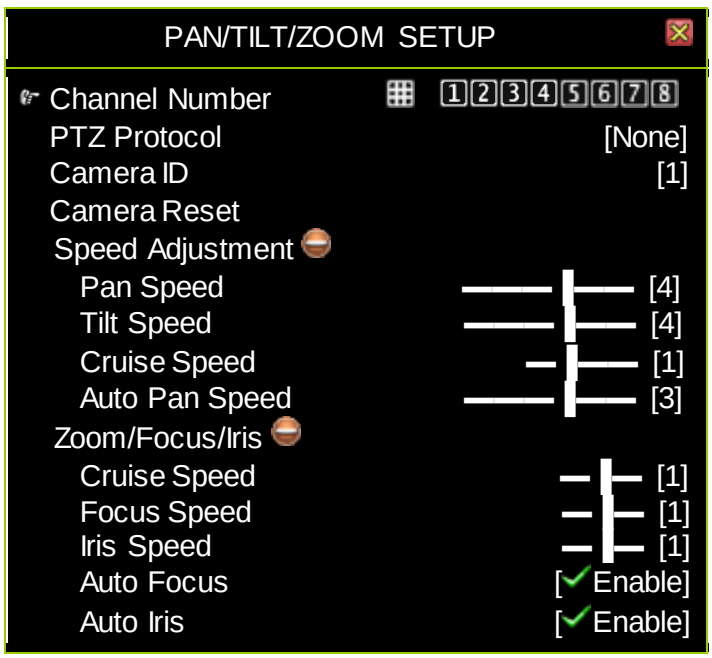
Though this option appears in the Utility Software Menu and in this manual, your DVR unit's hardware may not support this function. If your DVR unit does not have a PTZ port in the rear panel of the DVR (RS-485), your DVR unit does not support PTZ functions. Please visit our web site at http://www.encore-usa.com for a DVR that supports PTZ functions.

Configures the communication protocols between the DVR and the PTZ-capable cameras and the keyboard connected to it.



Pan/Tilt/Zoom Setup

The Pan/Tilt/Zoom Setup allows you to modify the PTZ settings for each channel of the DVR. These settings need to be matched to the camera you intend to connect to your DVR.



Channel Number

The "PAN/TILT/ZOOM SETUP" supports individually setup of each channel.
Select the icons "1" ~ "4" (for 4Ch), "1" ~ "8" (for 8Ch) or "1" ~ "16" (for 16Ch) to individually setup of each channel.

PTZ Protocol

Provides options for the PTZ camera protocol: Pelco P, Pelco D, Teleview Pelco P, Teleview Pelco D, Merit LILIN (3B), Merit LILIN (7B), HiSharp, Nicecam and Elitar.

Camera ID

Adjusts the identification number based on the local settings of your camera. This value may be any number from 1 to 255. Use the arrows (▲ and ▼) to select.

Speed Adjustment

These pertain to the panning, tilting, and cruising speeds of your camera.

- **Pan Speed:** can be set between 0 to 8.
- **Tilt Speed:** can be set between 0 to 8.
- **Cruise Speed:** can be set between 0 to 3.
- **Auto Pan Speed:** can be set between 0 to 5.

Zoom/Focus/Iris

These pertain to the zoom, focus, and iris adjustment settings of your camera.

- **Zoom Speed :** can be set between 0 to 3.
- **Focus Speed :** can be set between 0 to 3.
- **Iris Speed :** can be set between 0 to 3.
- **Auto Focus :** can be Enabled or Disabled.
- **Auto Iris :** can be Enabled or Disabled.

RS-485

The DVR uses the RS-485 standard for PTZ communication. The following settings must be configured in parallel with the local settings of the camera for the system to function properly.

Baudrate

Select a baud rate: 1200, 1800, 2400, 4800, 9600, 14400, 19200, 38400, 57600 or 115200.

Databit

Select a data bit communication protocol: 8-bit or 7-bit

Parity

Select a parity configuration: Odd, Even, or No Parity

Stopbit

Select a stop bit configuration: 1 Stopbit or 2 Stopbit

NOTE Pan/Tilt/Zoom and RS-485 Settings may vary for each camera. Be sure to match local camera settings to those you input on the DVR.

Keyboard (Optional)

Keyboard Model

Select the keyboard model you are using: OFF (if there is no keyboard), CK101, CK201, KB-KT301, EL-PT800

Keyboard ID

Adjusts the identification number based on the local settings of your keyboard. This value may be any number from 1 to 16.

Keyboard Protocol

Provides options for the keyboard communication protocol: Pelco P, Pelco D, Teleview Pelco P, Teleview Pelco D, Merit LILIN (3B), Merit LILIN (7B), HiSharp, Nicecam and Elitar. This setting depends on the keyboard model being used.

Screen Setup

Use to adjust the video format and resolution of the display device.

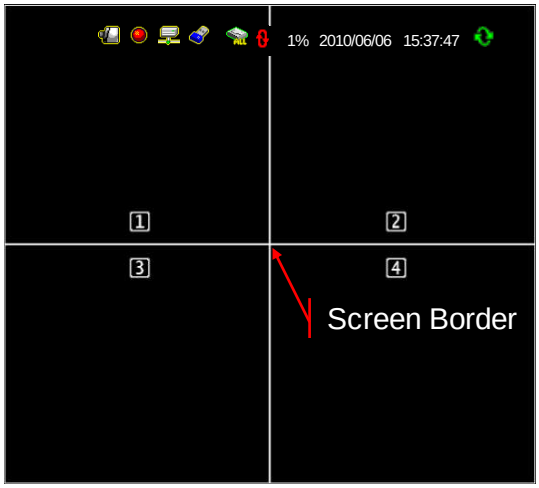
NTSC/PAL Auto Detection

The system will automatically detect the video format NTSC/PAL from the video source, i.e. security cameras.

Video Output Format

The selection of video output format NTSC or PAL is available while the "NTSC/PAL Auto Detection" function is disabled.

Screen Border



[ON] : To show the border

[OFF] : Not to show the screen border.

Main Display Screen

Provides options to connect the main display screen to either a BNC or VGA port (Labeled as "VIDEO-OUT").

VGA Resolution

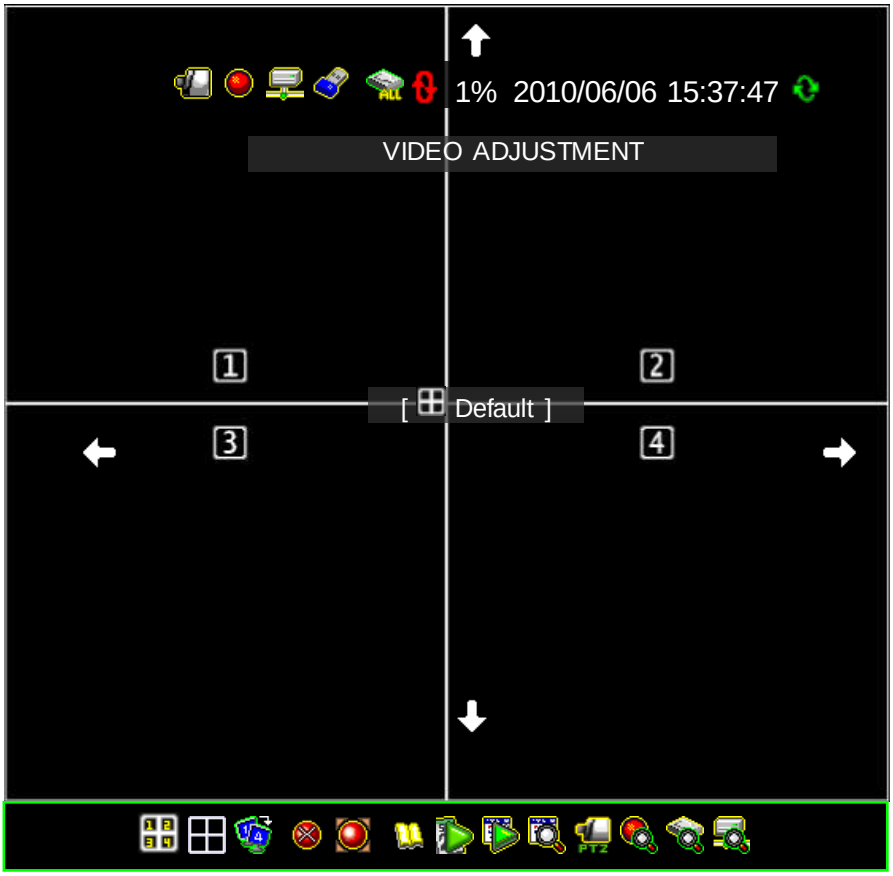
Sets the resolution as 640x480, 800x600, 1024x768 or 1280x1024.

NOTE The default setting for VGA resolution on the DVR is 800x600. Some monitors that may be connected to the VGA port may not support this resolution and this may result to unclear images on the display. You can adjust the setting to a higher value to ensure clarity of the video.

Video Adjustment

Adjusts the position of main display on the monitor when connect the main display screen to BNC port (Labeled as "VIDEO-OUT").

The following figure will show when enter the "Video Adjustment":



Adjust the image position by using the mouse left-click button to follow the direction change of cursor icon ⬆ up / ⬇ down / ➡ right/ ⬅ left.
Press [Default] to load the default location.

Audio Setup

Audio Setup relates to the settings for the audio device that may be connected to your DVR.

Audio Record

[✓ON] : Enables audio recording
[✗OFF] : Disables audio recording

Audio Mute

[✓ON] : Mutes the sound
[✗OFF] : Allows for sound to be heard

Input Volume

Adjusts the input volume from 1 to 16.

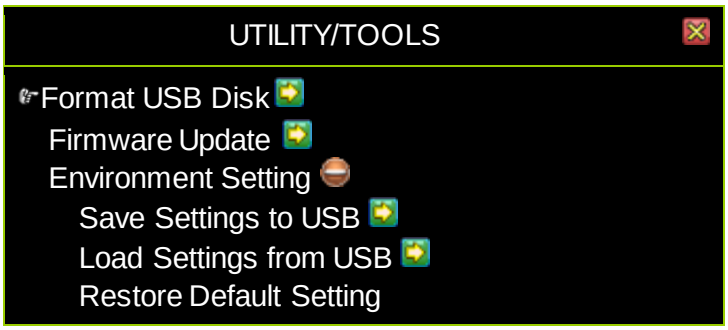
Output Volume

Adjusts the output volume from 1 to 16.

Utility/Tools

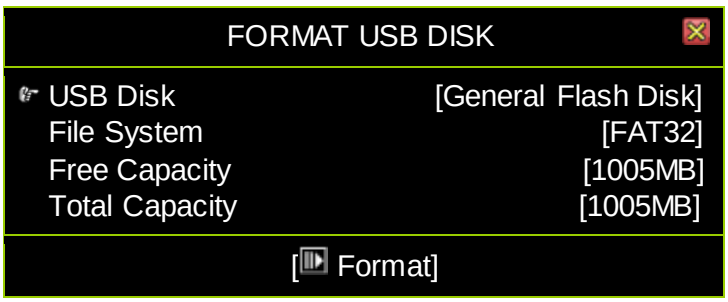
These tools help you to format the USB stick drive, to update firmware, to export event logs and to load or restore the environment configuration.

Click on the Utility/Tools icon or "Utility/Tools " on the Main Menu.



Format USB Flash Drive

The system supports USB pen drives and USB card readers with the FAT32 device file format. Please format the drive (using the file format function) if it is not in FAT32 an error will occur during backup. The file format function helps you format USB device to improve its compatibility with the DVR for storing video data into your USB device.



Firmware Update

The firmware is updated by using USB pen drive that contains the latest firmware file.

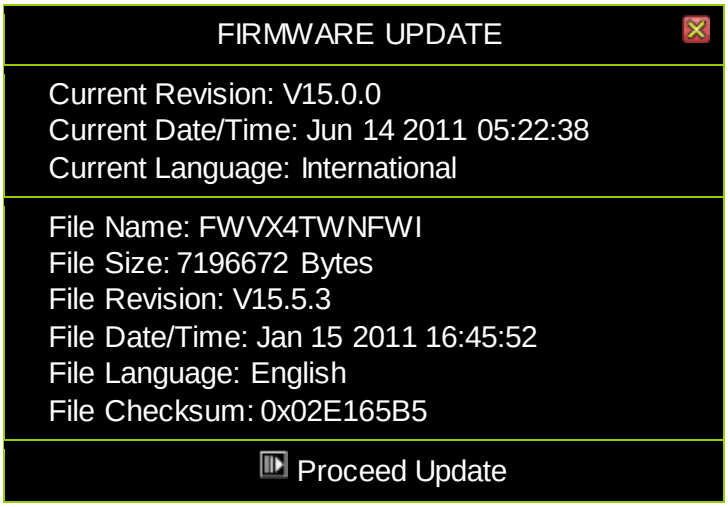
Attach the external USB disk into the USB port on DVR front panel.

NOTE Please refer to your Hardware Installation and Operation Manual to locate this USB port as it may vary for each DVR.

Once the USB device is connected to the port, the DVR will take a few seconds to search for the firmware.

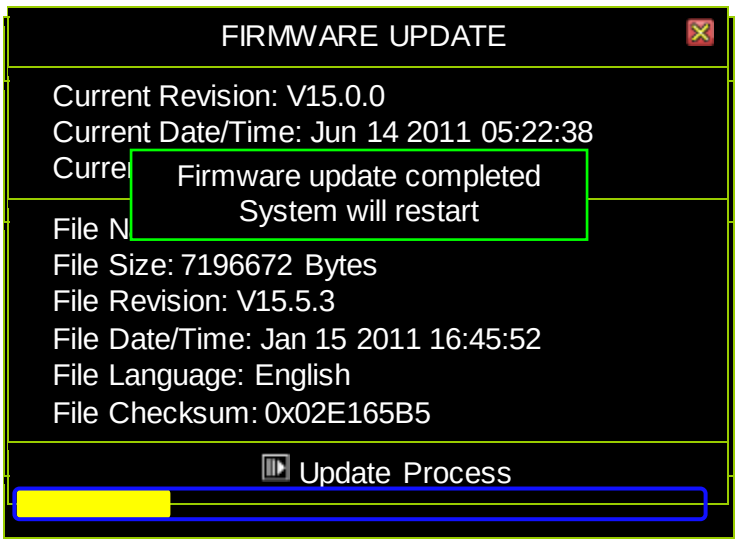
If there is a mistake or missing file on the drive, it will show: **File not found or Disk Error** on the bottom line. Please check USB disk or file. Re-attach disk to the port.

Once the firmware has been found, its file name, revision number, revision date and time, file language and checksum are displayed. Click this button on begin the upgrade.



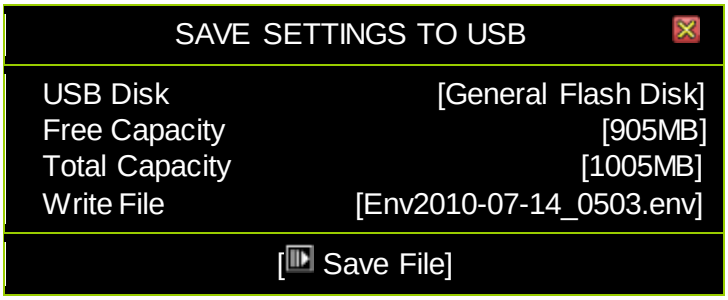
When the DVR is updating the firmware, a status bar will appear at the bottom.

After firmware update is completed, **Firmware update completed. System will restart** is displayed, and then the system restarts.



Environmental Setting

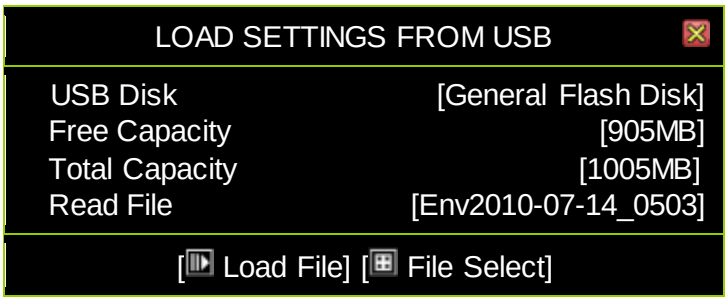
Save Settings to USB



This tool can help you duplicate the system environment configuration and store it on the USB device. You can use this to swiftly deploy your other DVR systems which will be using the same configuration.

It will show the following message after file is duplicated successfully.

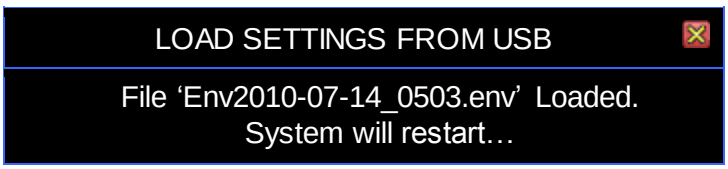
Load Settings from USB



This tool can help you load the system environment configuration from the USB device.

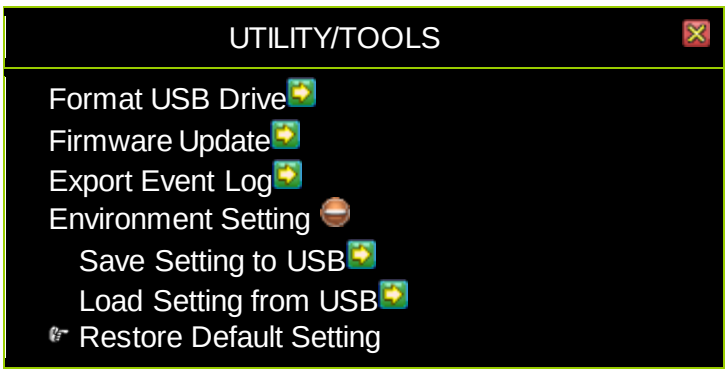
Click [File select] to select the file you would like to load.

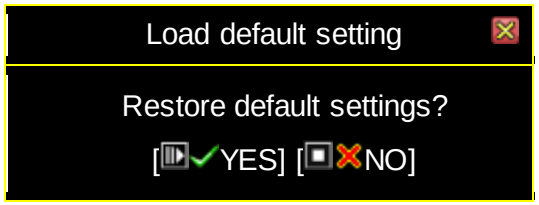
Click [Load File] to load the selected file from USB device. It will show the following message:



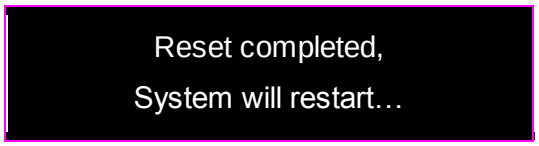
Restore Default Setting

This command resets the system to its default settings.





Select "YES" to load the default setting. After which, the system will reboot.



Exit Main Menu

The Exit Main Menu window provides options to save or discard changes before exiting.

Click on the icon if you access this from the Main Menu in Graphics Mode. If you have made changes, you will be asked whether or not you would like to save those changes.

Otherwise, in the regular Main Menu mode, you are presented with the following window:

Exit & Save Changes

All changes are saved before exiting from the menu.

Exit & Discard Changes

All changes are ignored (The changes will not be saved and will take no effect.) before exiting from the menu. Confirm with "Yes" or go back to the menu by choosing "No".

Chapter

3

Playback and Data Backup

Calendar Menu

The Calendar Menu is a play back feature that allows you to access recorded videos by selecting the date and time when the video was captured.

Press the Calendar Menu Icon on the Control Bar to enter the Calendar Menu in the active viewing window.

Choosing the year of the video to play back

The Year Selector will start blinking when your mouse is hovering over it. Click on the year or the arrows beside the year (or) to choose.

Choosing the month of the video to play back

The Month Selector will start blinking when your mouse is hovering over it. Click on the month or the arrows beside the month (or) to choose.

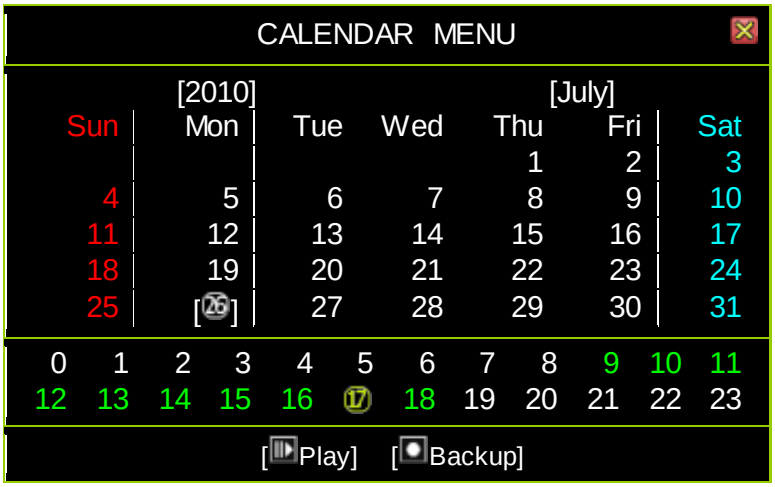
Choosing the day of the video to play back

The dates with recorded videos will be in a vivid white color for weekdays, red for Sundays, and cyan for Saturdays on the Day Selector. A specific day will start blinking when your mouse is hovering over it. Click on the day you would like to review. A circle will appear around the selected number and the number will be enclosed with brackets.

Choosing the time of the video to play back

Once you've chosen the date, the hours with recorded videos will be in a vivid green color on the Time Selector. A specific time will start blinking when your mouse is hovering over it. Click on the hour you would like to review. A circle will appear around the selected number.

Example of time-search video selection with Calendar Menu



In the example above, the date selected is July 26, 2010 (Monday) and the time is 17:00. The illustration also shows that recorded videos of that day are available from 09:00 to 18:00.

[Play]: Starts to play the event that has been selected.

[Backup]: Creates a backup file for the event that has been selected

NOTE Play back and backup for the Calendar Menu is similar to the operation available in the Play Menu. Please refer to the section on the Video Playback Control Bar.

Play Menu

Press the Play Menu icon to enter Play Menu in the active view window.

- **Channel Number:** select the channel to playback
- **Play Begin Time:** specify the beginning of the playback
- **Play End Time:** specify the end time of the playback

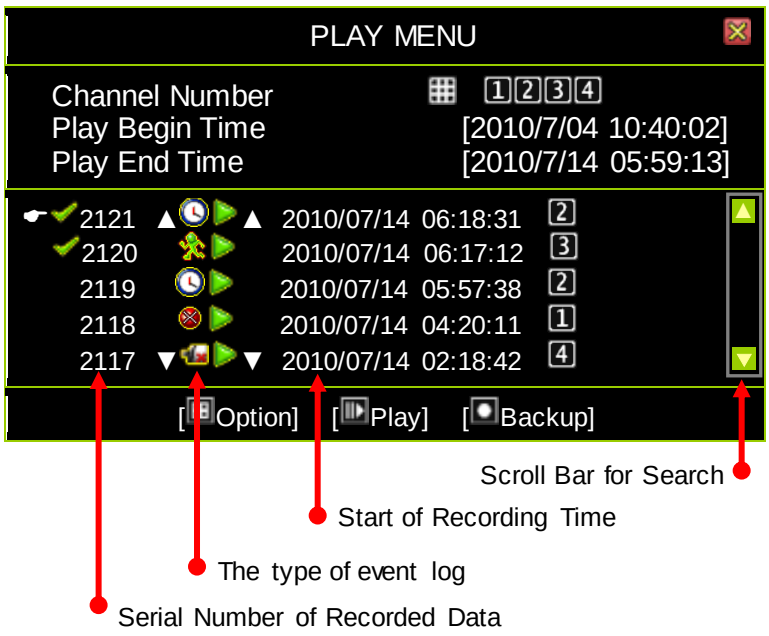
The information below it shows the available recorded events.

To click [**Option]** to switching the window as follows:

[**Play]**: Start playing the recorded data. After the data has been played, it will show "✓"

[**Backup]:** To back-up the recorded data. Please refer to the "Backup" section

Commands and Recorded Data status:


PLAY MENU
Channel Number 1 2 3 4
Play Begin Time [2010/7/04 10:40:02]
Play End Time [2010/7/14 05:59:13]
2121 2010/07/14 06:18:31 2
2120 2010/07/14 06:17:12 3
2119 2010/07/14 05:57:38 2
2118 2010/07/14 04:20:11 1
2117 2010/07/14 02:18:42 4
[Option] [Play] [Backup]
Scroll Bar for Search
Start of Recording Time
The type of event log
Serial Number of Recorded Data

- **S/N of Recorded Data:** Series Number of recorded data provide by system
- **Recording Status:**
  - ▲/▼: Shows the begin or end of recording data in the hard drive
  - : Shows the recording mode
  - : The data can be played (This icon doesn't show if no video recording is available.)

- ✓ **:** The recorded video data has been played
- / : Power ON/OFF event occur

- **Recording Time:** The date / time of recorded data
- **Searching:** The vertical scroll bar for search the recorded data by mouse

Video Playback Control Bar

You will see the control bar during video playback.

PIP View	Displays real-time video and playback video simultaneously in PIP (picture in picture) view.
4 Split View	Displays playback video in 4-split view.
Previous Segment	Plays back the recorded video by one hour
Rewind	Plays backward faster
Stop	Stops the video playback
Pause/Single Frame	Pauses the video playback
Play	Starts the video playback
Fast Forward	Plays forward faster
Next Segment	Plays forward the recorded video by one hour
Calendar Menu	Goes back to Calendar Menu
Play Menu	Goes back to Play Menu
Event Search	Goes to Search Menu
Play Bar	Shifts the bar to select the playback time from the recorded video data you would like to review.

Event Search

Press the Event Search icon on the Control Bar to enter Event Search Menu.

- **Channel Number:** Specifies the channels to search
- **Filter Type:** Filters events by type "General Event", "Record Event", "Hardware Event", "Warning Event", and "All Events"
- **Filter Time Setup**:

FILTER TIME SETUP
Active Filter Time [Disable]
Filter Begin Time [2010/07/04 10:40:05]
Filter End Time [2010/07/14 07:06:22]
Time Reset Range

- **Active Filter Time:** Enables/disables filter time of event
- **Filter Begin Time:** Specifies the beginning time of event filter
- **Filter End Time:** Specifies the end time of event filter
- **Time Reset Range:** Resets the event search time period according to all effective events as recorded

[Play]: Starts to play the event that has been selected

[Backup]: Creates a backup file for the event that has been selected

[Option]: Switches the top frame of the Search Menu into an event content display. The display depends on the type of event being referenced.

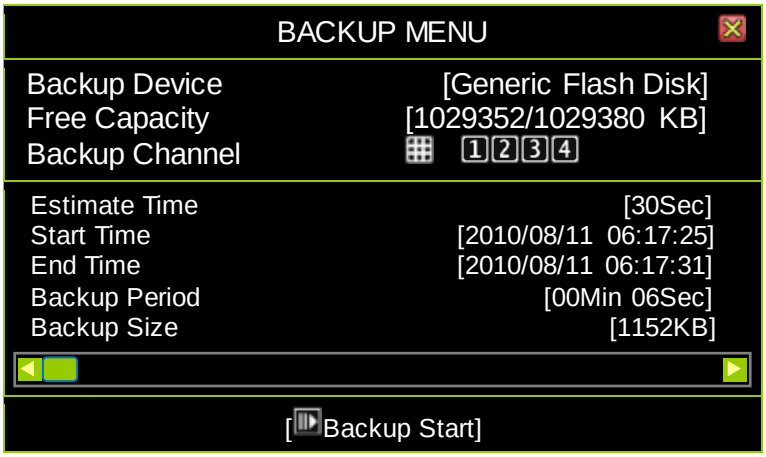
- **Event Name:** Shows the name of the selected event
- **Triggered Channel:** Shows the triggered channel
- **Record End Time:** Shows the recording end time.

Data Backup

The DVR supports a USB 2.0 device (stick drive and card reader) for data storage.

NOTE Please refer to your Hardware Installation and Operation Manual to locate this USB port, typically on the front panel, as it may vary for each DVR.

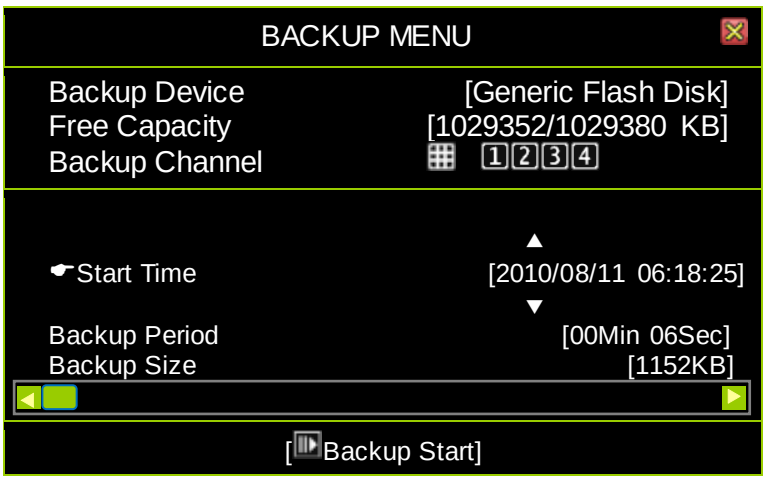
Press **[Backup Start]** to enter the "Backup Menu".

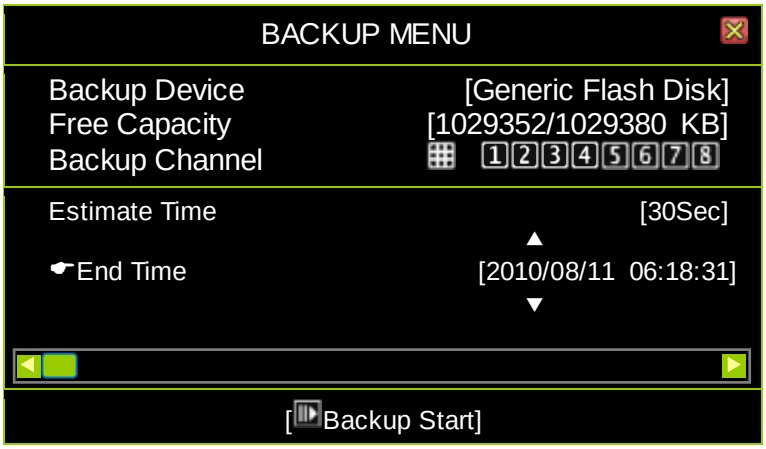


Disk information is shown on the top portion of the screen and recorded data information is shown in the bottom portion.

- **Backup Device:** shows the backup device where data will be stored for backup.
- **Free Capacity:** shows the amount of free space on the backup device.
- **Backup Channel:** selects single or multi channels you would like to backup.

You can change the period of recorded data for backup by setting the "Start Time" and "End Time".





You can also use the scroll bar to adjust the length of the video you would like to store in a file as backup.

The "Start Time" and "End Time" of the selected video record data will be shown. The "Free Capacity", "Estimate Time", "Backup Period" and "Backup Size" change automatically when the start and end times are altered.

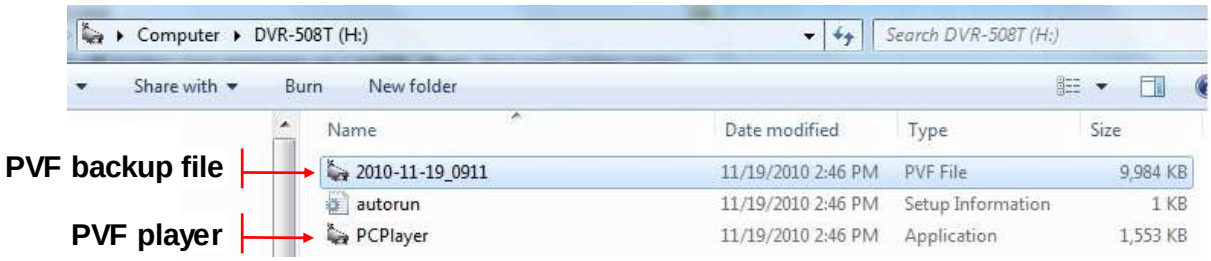
Press **[Backup Start]**. It will start to backup data into USB 2.0 device. The maximum backup file size is 32Gb.

A PVF video file (An example for the backup made above would look like: "2010-08-11_1754.pvf") and a PVF player will be stored into the USB device. You can review this video file using the **PC Player** or on the **PCViewer** software.

Please refer to the chapter on the PCViewer for information about the said application.

PC Player

A **PC Player** is stored along with the PVF file when a backup is created and stored into a USB pen drive. In the example shown, the PVF file has an accompanying player.



The primary window for the player appears as follows:

The following table shows the function of each button:

Icon	Name	Function
	Open	Browse and open for a PVF file to view
	Fast Rewind	Plays backward 8 times or 16 times faster
	Play Reverse	Plays backward at the normal rate of motion
	Previous Frame	Plays back the recorded video by one frame (image)
	Pause	Pauses the video while it is being played back
	Next Frame	Plays forward the recorded video by one frame (image)
	Play	Plays the video in the normal rate of motion
	Fast Forward	Plays forward 8 times or 16 times faster
	Still Capture	Captures a still picture of the current frame and saves it.
	Split 1	Displays a single channel being played back. Use left mouse button to go through each channel.
	Split 4	Displays 4 channels being played back simultaneously
	Split 9	Displays 9 channels being played back simultaneously
	Split 16	Displays 16 channels being played back simultaneously
	Mute On/Off	Removes/activates the sound from the player
AVI	AVI	Converts and stores the PVF video file into an AVI file

The Scroll Bar allows you to navigate through the length of the video by simply dragging it across.

The Volume Control Bar allows you to control the volume of the sound coming from the player.

NOTE 9-Split View is available only for DVRs with more than 8 channels and 16-Split View is available only for DVRs with 16 channels.

Chapter

4

System Information

Record Information

The "Record Information" menu displays the current states of the DVR system.

On your Control Bar, locate and click on the icon.

The Record Information will appear as follows:

Record Information Parameters (topmost bar)

- : Channel Number
- : Video Loss
- : Recording Resolution
- : Recording Mode
- : Remaining Recording Time
- : Buzzer Alarm
- : Latest Recording Frame Rate
- : External Alarm

Possible corresponding values for the parameters

- 1 ~ 16: Channel Number
- : Video Loss
- CIF: CIF Recording Resolution
- Half-D1: Half D1 Recording Resolution
- D1: D1 Recording Resolution
- : Not Recording
- : Motion Record Mode
- : Time Record Mode
- : Sensor Record Mode (Optional)
- : Sensor+Motion Record Mode
- 10: Record Time Count Down
- 30: Frame Rate in Use
- : Buzzer Alarm Mode

NOTE The two-column format for the Record Information menu is normally for 16-channel models.

Hard Drive Information

The Hard Drive Setup menu displays the hard drive status.

On your Control Bar, locate and click on the icon.

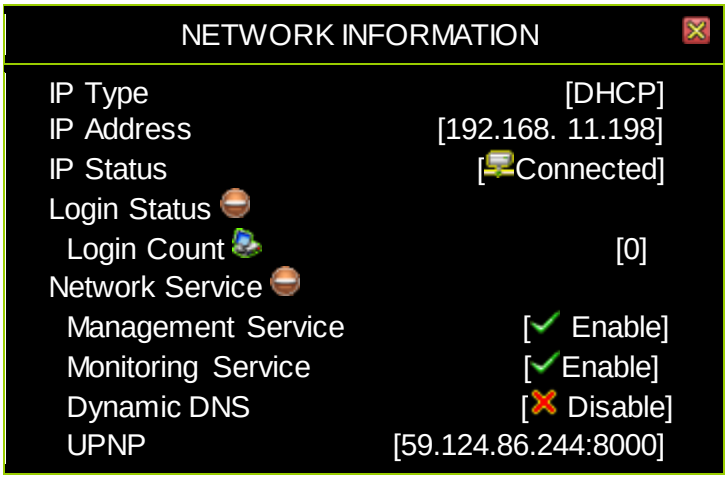
HARD DRIVE INFORMATION
First Hard Disk
Model [WDC WD7500AYPS-01ZKB]
HDD Size [715403 MB]
Max. Recording Days [None]
Record Start Time [2006/06/11 15:26:18]
Record End Time [2010/06/14 13:13:30]
Standard Record Size [2438/715351 MB]
Standard number of Event [396/357376]

- **Model:** Displays the hard drive model number.
- **HDD Size:** Displays the hard drive size.
- **Record Start Time:** Displays the day and time when the hard drive starts storing recorded data
- **Record End Time**: Displays the day and time of the last recording on the hard drive
- **Standard Record Size:** Displays the total hard drive capacity in megabyte (MB) and the ratio of using space.
- **Standard Number of event**: Displays the number of record events / total capacity of events and the ratio of using space.

Network Information

Network Information displays the current state of network connections.

On your Control Bar, locate and click on the Network Information icon .



Network Information

» "IP Type" shows the network connection type.

» "IP Address" shows the current IP address.

» "IP Status" shows the network is connected or not connected.

» "Login Count" shows how many connections from remote site.

» "Management Service" shows enable or disable the management service for allowing remote control from IE or PCViewer

» "Monitoring Service" shows enable or disable the management service for allowing remote viewing from IE or PCViewer

» "Dynamic DNS" shows that the Dynamic DNS service has been enabled or disabled.

» "UPNP" displays the status of the UPNP on the DVR.

Chapter

5

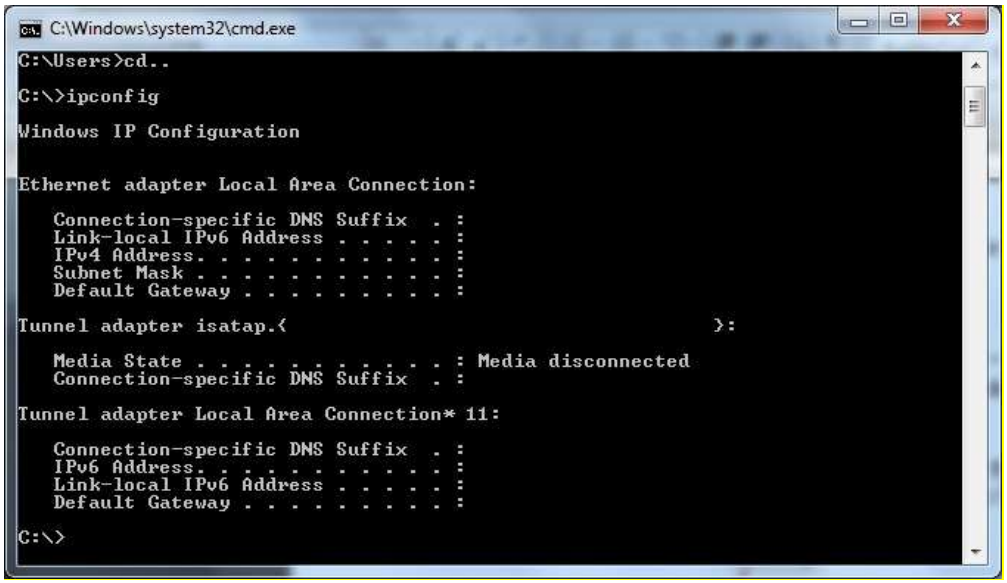
Network Connectivity

PC Connection through LAN

The following is a general example that shows how to find the basic network information from the local area network (hub).

Step 1 Search Router IP Address

Enter "ipconfig" on DOS prompt and take note of the **Default Gateway** value. This is the Router's IP Address.


C:\Windows\system32\cmd.exe
C:\Users>cd..
C:\>ipconfig
Windows IP Configuration
Ethernet adapter Local Area Connection:
Connection-specific DNS Suffix . :
Link-local IPv6 Address . . . . . :
IPv4 Address. . . . . :
Subnet Mask . . . . . :
Default Gateway . . . . . :
Tunnel adapter isatap.{ }:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Tunnel adapter Local Area Connection* 11:
Connection-specific DNS Suffix . :
IPv6 Address. . . . . :
Link-local IPv6 Address . . . . . :
Default Gateway . . . . . :
C:\>

Step 2 Determine your DVR IP address

Generally the usable IP Address is from 192.168.11.2~192.168.11.253. The suggested IP Address available for assigned to other network devices is from 192.168.11.160 to 192.168.11.199.

Step 3 Find out the available IP address

Enter ping and the IP address you would like to test on the DOS prompt window.

When "Reply from ***[IP address]***: bytes=32 time<10ms TTL=128" appears, as in the following illustration, that means this IP address is occupied by another network device.

If "Request timed out" appears, it means this IP address is not being used now and can be used for the DVR.

NOTE

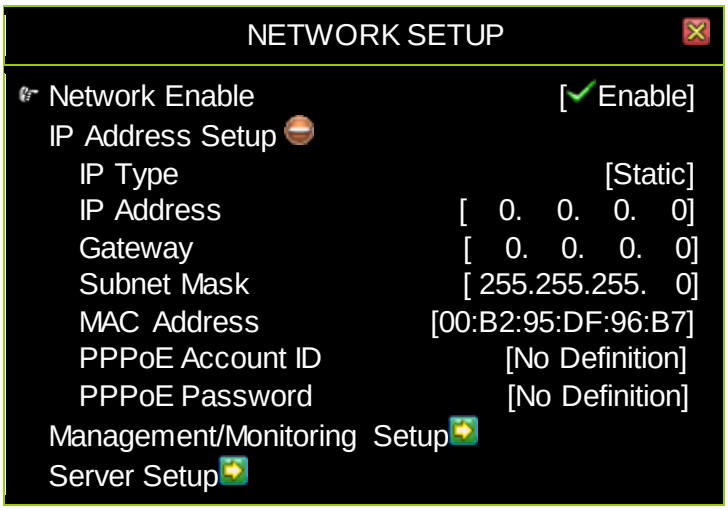
You must plan on the network structure if the MIS or Network Administrator manages the network.

You should consult with the MIS or Network Administrator for the IP address segment and port-forwarding rule for the DVR network setup.

Step 4 Setup DVR IP Address

When you find a usable IP address, go back to DVR **Network Setup** menu to enter IP address.

- **IP ADDRESS**: Enter the DVR's address
- **GATEWAY**: Enter Router IP Address
- **Subnet MASK**: Typically, 255.255.255.0



Dynamic DNS Service Overview

DynDNS is a service that maps internet domain names to an IP address. The DynDNS works with dynamic IP address that is assigned by your ISP company server randomly.

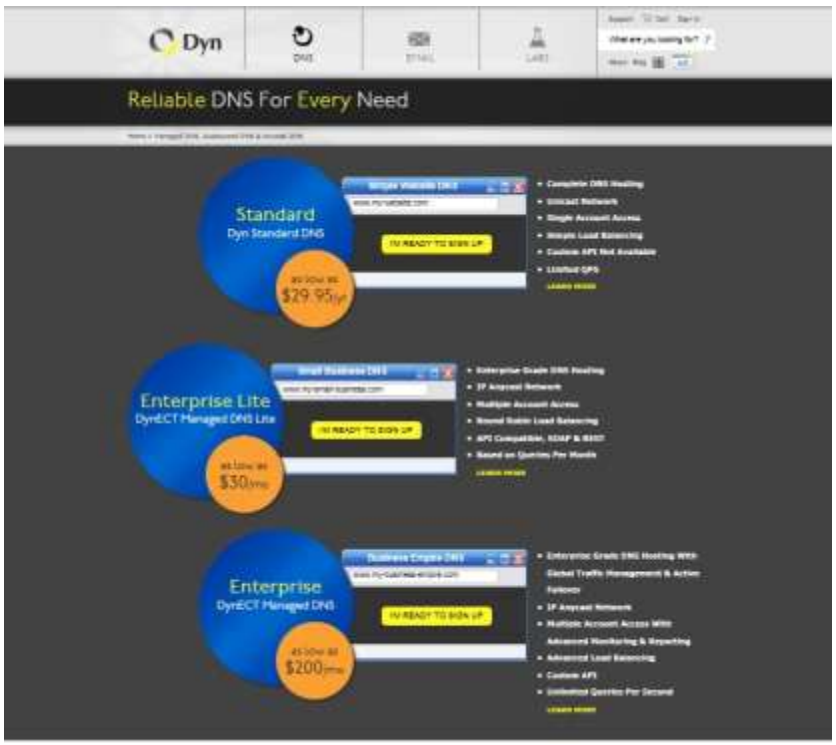
NOTE A router is needed as the interface between PC and DVR when DVR is under internal network environment or LAN.

Register with Dynamic DNS

There are three suggested providers for Dynamic DNS account:

www.no-ip.com, www.changeip.com and www.dyndns.com

In the following example, we will use http://www.dyndns.com as the dynamic DNS provider.



Create a Dynamic DNS Account in dyndns.com

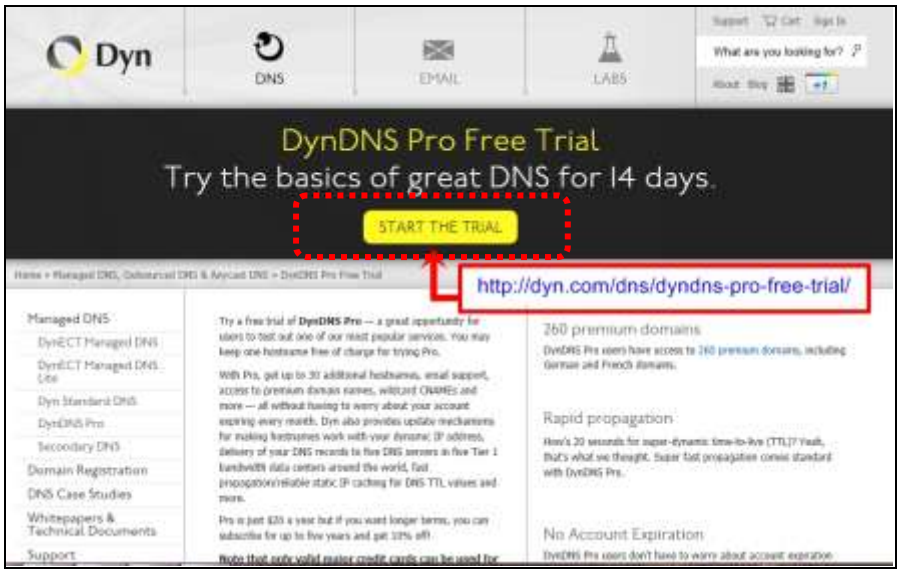
NOTE

DynDNS.com is not a partner nor affiliated with Encore Electronics Inc. Their web site appearance may change from time to time and services may change from what is written in this manual. As of this writing the dyndns.com offers one free hostname account, but it can only be granted if you use one of their trial services for a certain period of time, and then cancel before it expires. Please check the dyndns.com for current rules and how to get a free hostname to map to your dynamic IP address.

Below steps are currently posted in the dyndns.com web site.

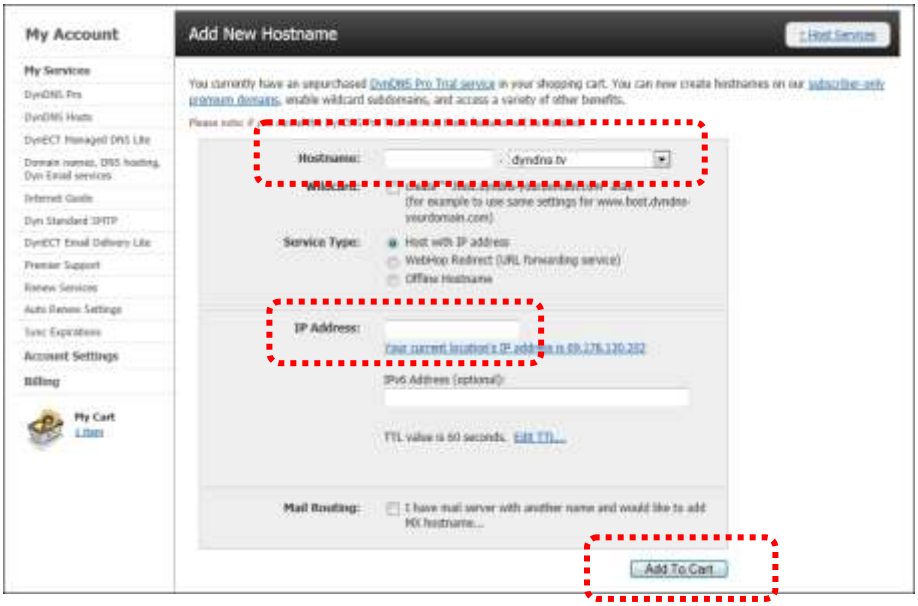
Step 1 Please make sure you have read the notice above because web links for DynDNS mentioned here may change. If the links and instructions given below differ from what you are seeing in this manual, please contact DynDNS on how to get a free hostname. Or, you may want to subscribe to a yearly DynDNS Pro service currently at $20 per year.

Go to the http://dyn.com/dns/dyndns-pro-free-trial/

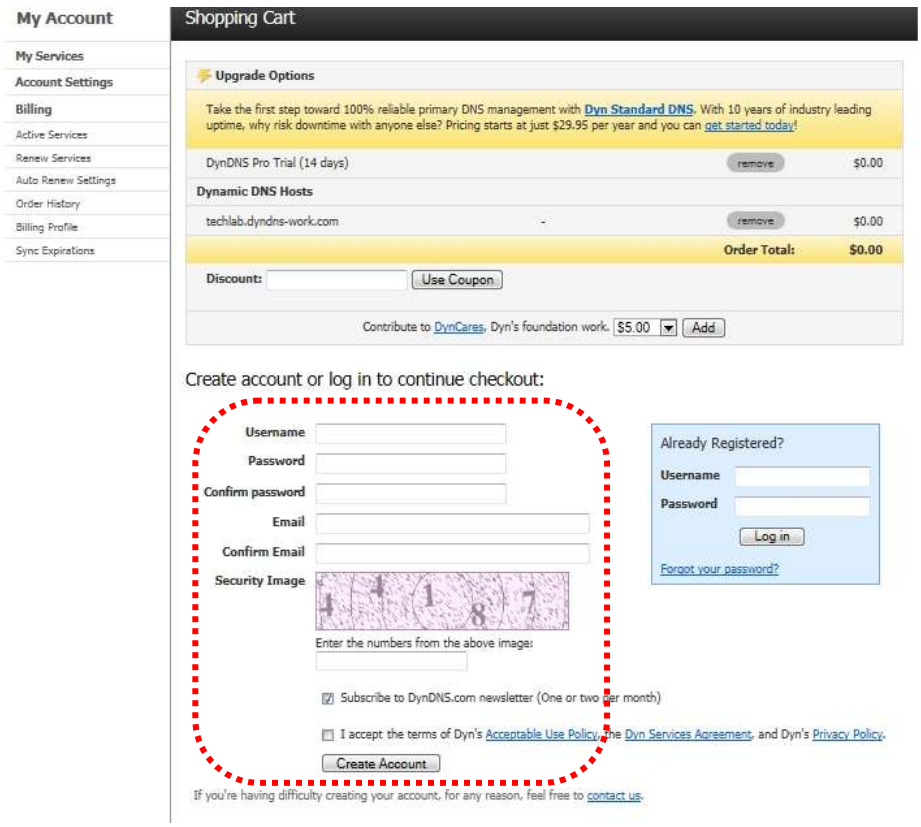


Click on "START THE TRIAL" To get started.

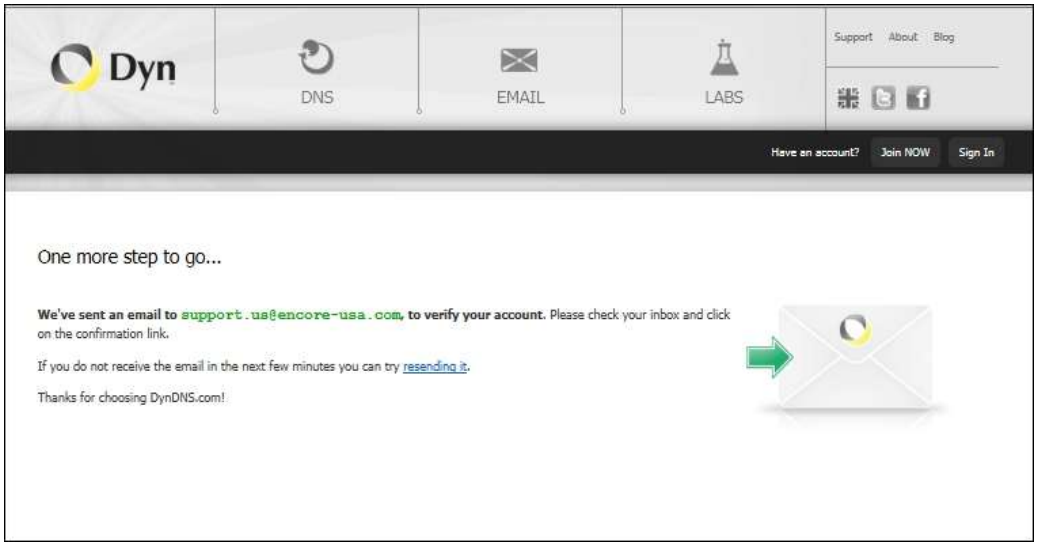
Step 2 Fill up all the blanks for your selected "Hostname", and your ISP given IP address then click on "Add to Cart". If you don't know your current IP public IP address contact your ISP..



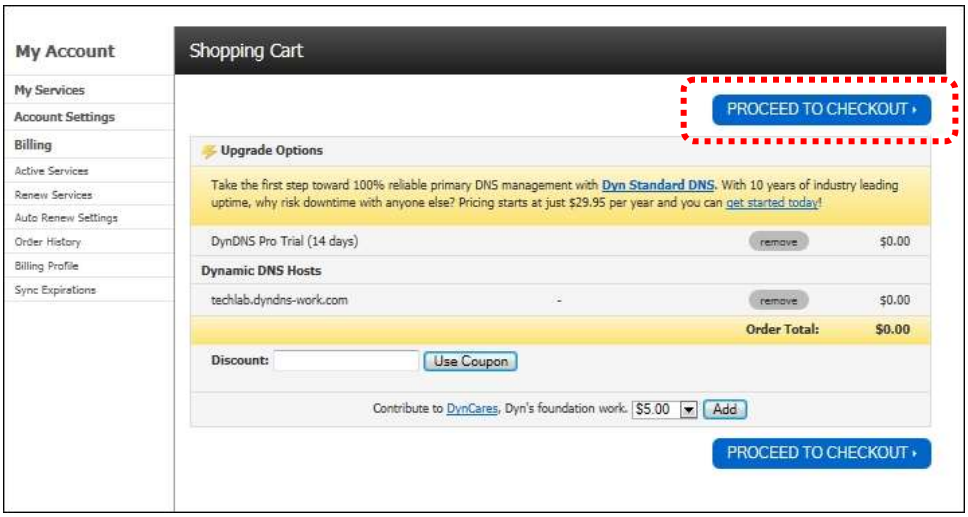
Step 3 Create an account. Fill up information on the "Create Account or log in to continue checkout", check mark the "Accept" button, then click "Create Account".



Step 4 Email verification. Follow instructions on the screen. You should activate your account within 48 hours, otherwise you have to start over the process again. If you choose to click the link on your email, you will be connected to the Step 5 screen.


Dyn
DNS
EMAIL
LABS
Support
About
Blog
Have an account?
Join NOW
Sign In
One more step to go...
We've sent an email to support.us@encore-usa.com, to verify your account. Please check your inbox and click on the confirmation link.
If you do not receive the email in the next few minutes you can try resending it.
Thanks for choosing DynDNS.com!

Step 5 Proceed to Checkout. At this stage you will be asked for your credit card information. When finished, the 14-day trial period will start counting. You can use this trial full PRO service for 14 days until you cancel. If you choose to continue or did not cancel within the 14 days period, your account will be automatically activated to a full PRO service and the annual service usage fee will be charge to your account. When you cancel before the 14-day period, you will receive a one free hostname with limited DynDNS service. Please check with DynDNS on rules how to maintain the retained free Hostname, otherwise it will expire if not visited in a certain time. These statement and rules may change anytime; please check the DynDNS web site for the current rules and other services that may fit your needs.

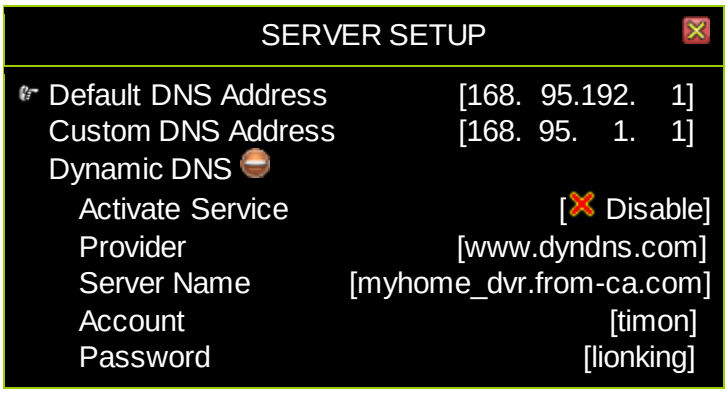


Setup Router. Most of the settings for the router are identical, here are some the suggestions:

- Specify DYNDNS service provider: DnyDNS.org (dynamic)
- Specify DYNDNS IP by DYNDNS account (user name / password)
- Specify DVR IP as private IP setting
- Specify the streaming port. The default value is 8000.

Setup the DynDNS Settings to the DVR

After completing the DynDNS account application and your router is also done with the DynDNS setup, the next and final step is to setup your DVR to accept your DynDNS hostname. To do this, go to the DVR's main menu screen, go to "Hardware Setup", go to "Network Setup", and then go to "Server Setup". The Server Setup screen is shown below, follow these steps:

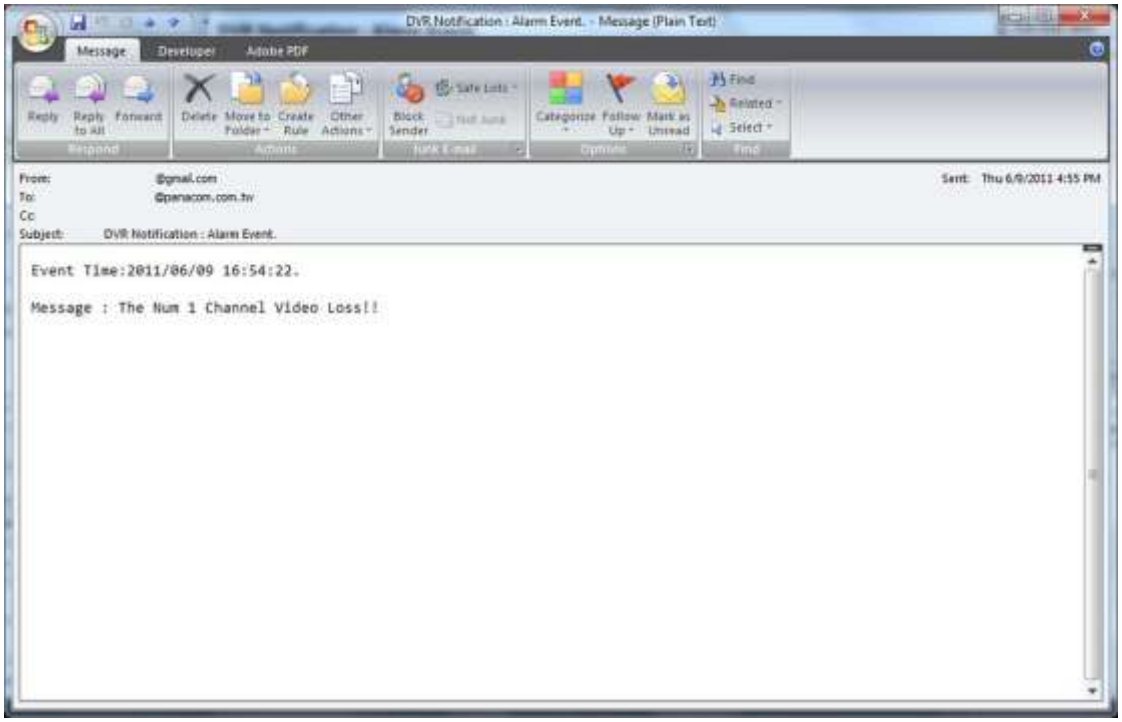


- Default DNS Address – leave it as it is or check your ISP
- Custom DNS Address – leave it as it is or check your ISP
- Dynamic DNS
  - Activate Service – Change to ENABLE
  - Provider – www.dyndns.com (other options are www.changeip.com, www.no-ip.com) This time we are using the dyndns.com service
  - Server Name – This is what you have created when signing up to the DynDNS service as below picture. Remember this?

  - Account – This is the "username" you created when signing up, this is also your username when logging in to your DynDNS account.
  - Password – Enter your password for your DynDNS account. Make sure you save these data when you exit.

Email Notification

When an event is recorded and the email notification feature has been activated, a message will be sent to the recipient's email account. This message will contain details about the event.



NOTE Remember to enable the email service function in the E-Mail Setup menu to receive notifications.

NOTE Your sender email server must be using SMTP server to be able to forward email. Check with your email service provider for their SMTP server address and SMTP port number before setting up the email notification.

Chapter

6

PCViewer

PCViewer Operation

PCViewer is a remote viewing utility software for Windows based PC. This software is free and bundled with the ENXDVR-4C V2 kit package. It can be installed to your PC computer from the setup disc that comes with the kit package. PCViewer can remote view live video streaming from your cameras or playback previously recorded videos. It can also be used to change and control the settings of the DVR from a remote PC computer using LAN or WAN internet network connections depending on how the PC computer can access your DVR and how the DVR is connected to the network. PCViewer works only on Windows based computer and Internet Explorer web browser. If you would like to remote view your DVR using a different platform please check the specific section from this manual.

NOTE The PCViewer works best with a display resolution of above 800x600. Please set your PC monitor's resolution to a value higher than this.

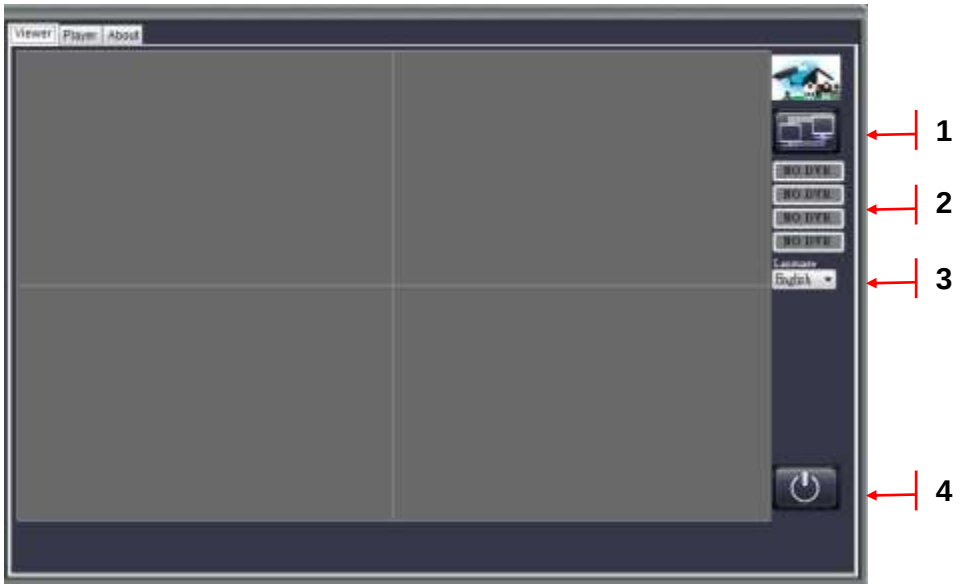
Installation

From the included setup disc, run "PCViewer Utility". In Windows Vista or Windows 7 OS, you should login as admin to run this program .

NOTE We suggest that you run and install the DirectX software when prompted. It will provide a smoother video display of the PCViewer video on your Windows PC based the computer. Overview.

The PCViewer supports remote viewing and control for a maximum of 4 remote DVR site connections.

Once the PCviewer installation is completed, click on the PC desktop icon "PCViewer". The main application screen will appear as follows:



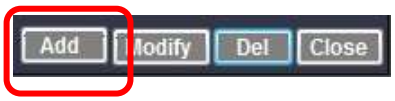
No.	Function
1	Opens the DVR connection window
2	Indicates the name of the DVR connections
3	Selects the language for the PCViewer
4	Closes the PCViewer application

Connect PC Client to DVR

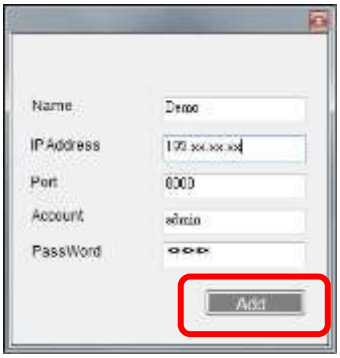
This section describes how to manage the DVR connection window.

Step 1 Click the button to open the DVR connection window. From here, the user can **Add**, **Modify** or **Delete** a DVR connection.

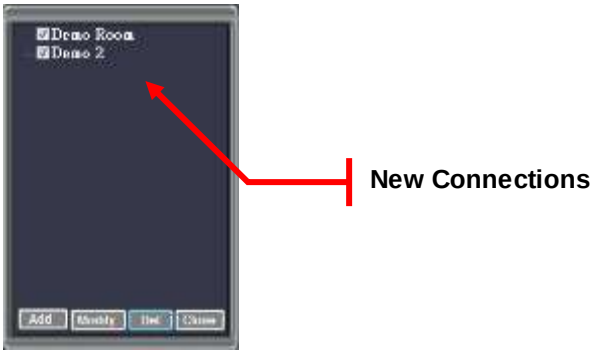
Step 2 Press the "**Add**' button to create a DVR connection.



Step 3 Type in the DVR name, DVR IP address, port number (Default port number is 8000), account name, and password.



Step 4 Once you close the "Add" menu, the DVR list will show the new DVR connections.



Step 5 Tick on the box beside the DVR name. The check mark indicates that the DVR will be displayed on the PCViewer. Click on the "**Close**" button to close

NOTE To modify or delete a DVR from the list, click on the DVR name and allow for the blue highlight to appear. This highlight marks the DVR you have chosen to operate on.

Switching the Channel Displays

The PCViewer can easily switch viewing between the digital recorders connected to it. As seen from the main screen, the display is divided into quadrants (four areas). Each quadrant is associated to one DVR.

This section briefly illustrates how to:

- switch display on the quadrant from multiple channels (4, 8, or 16) to a single channel
- switch display on the quadrant from a single channel to multiple channels (4, 8, or 16)
- switch display on the screen from multiple DVRs to one DVR
- switch display on the screen from one DVR to a single channel on that DVR

Display a single channel on one quadrant

Double click on the channel you would like to display on the quadrant that it is in. The screen will appear as follows:

Display multiple channels viewing on one quadrant

Double click on the single channel on the quadrant to view multiple channels.

The screen will appear as follows:

Display a single DVR connection display in full view

Click on the DVR connection button on the right-hand side of the screen to display your selected DVR in full screen view.

The screen will appear as follows:

Display single channel from one DVR in full view

Double click the specific channel you would like to display in full view or click the "▣" icon to switch the display. The screen will appear as follows:

NOTE The , , , and icons are for single, 4-channel, 9-channel, and 16-channel views, respectively.

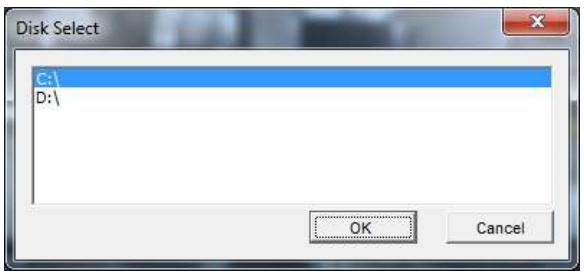
Pause Live Viewing

Click on the "" icon to pause the current viewing.

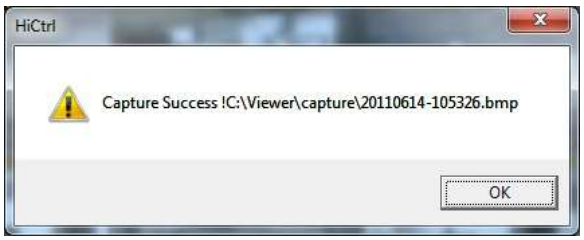
Capture Still Image

Click on the icon to capture still image of the view that is currently displayed on the screen.

A prompt will require you to specify the desired location for the file.



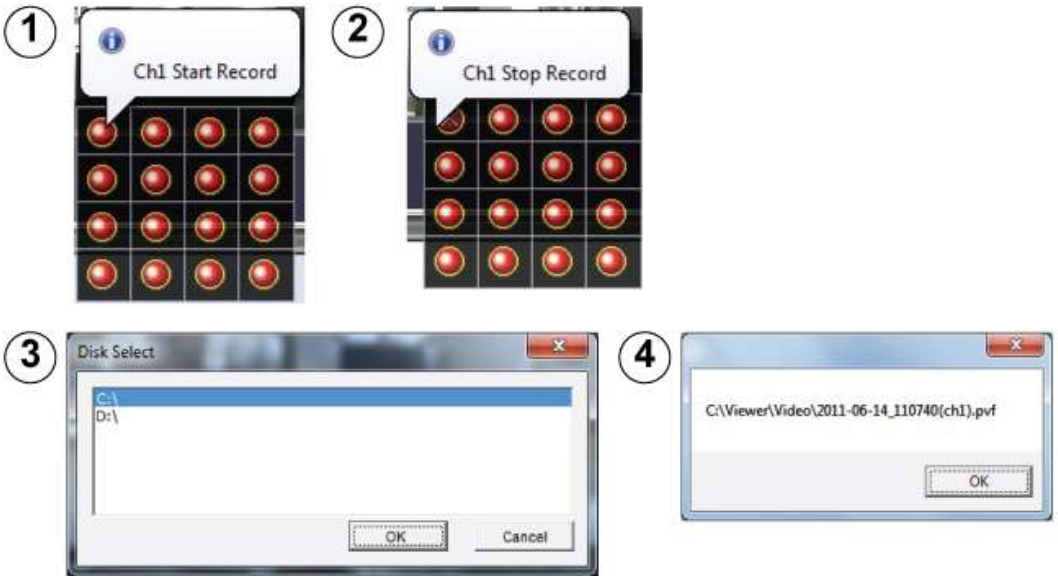
A BMP file is automatically saved into a folder (Viewer) located in the drive you have specified:



Live Backup

Click on the " " icon for live backup. This allows you to record the video stream instantly to your PC where you are running the PCViewer Software.

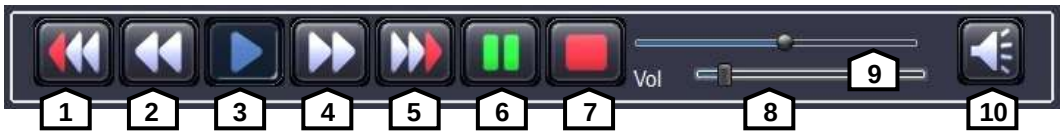
Select which channel you want to record. When you stop the recording, a pop-up screen will direct you to select the drive where you want to store your file. The PVF will be stored in a folder (Viewer) in the chosen drive.



Remote Playback

Click on the icon to display the remote playback interface on your PCViewer. A selection window will allow you to select between **Time Search** or **Event Search**.

Preview of the Control Bar

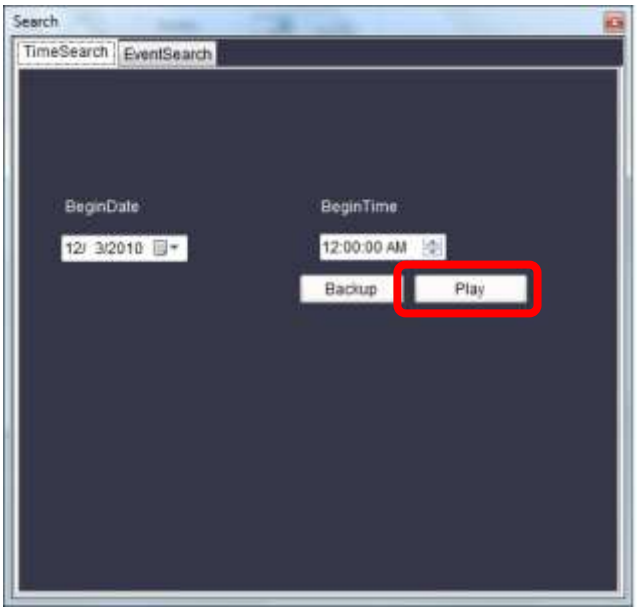


No.	Name	Function
1	Fast Backward 2x	Plays backward faster by twice the normal speed
2	Fast Backward 1x	Plays backward faster by 1x the normal speed
3	Playback	Starts the video playback
4	Fast Forward 1x	Plays forward faster by 1x the normal speed
5	Fast Forward 2x	Plays forward faster by twice the normal speed
6	Pause	Pauses the video playback
7	Stop	Stops the video playback
8	Time Bar	Adjust the playback time
9	Video Scroll Bar	Pans through a video as the button is moved
10	Volume	Volume switch

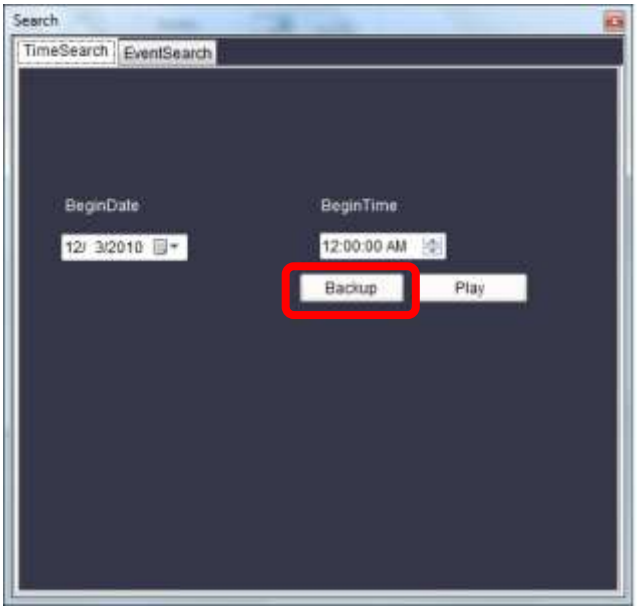
Playback by Time Search

Time Search allows you to select the start time of the recording you would like to review in playback.

Step 1 Select the "Begin Date" and "Begin Time". Press the button *"Play"* to start video playback.



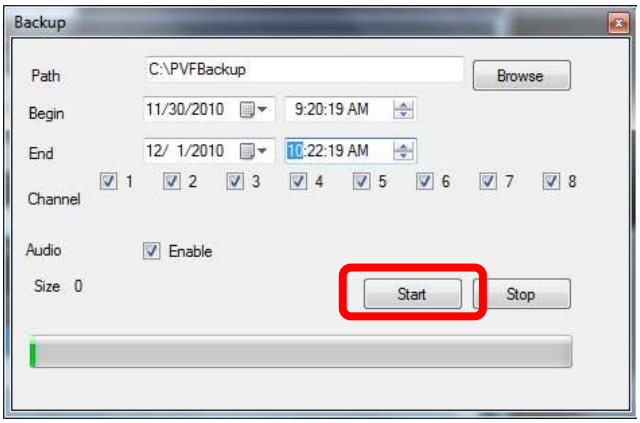
Step 2 While reviewing the video, you can click on the button to go back to the **Time Search** control window.



Step 3 Press the *"Backup"* button to create a copy of the video. The succeeding menu will require you to set the following:

- **Path**: Click on the *"Browse"* button to specify the location where you would like to store the file.
- **Begin**: Select the start date and time for the video you would like to create a copy of.
- **End**: Select the end date and time for the video you would like to create a copy of.
- **Channel**: Select the channel or channels from which the backup video or videos will be taken from.
- **Audio**: Enables the inclusion of audio into the backup
- **Size**: The file size automatically adjusts according to the duration (start and end time) set by the user.

Step 4 Press *"Start"* to begin the backup process.



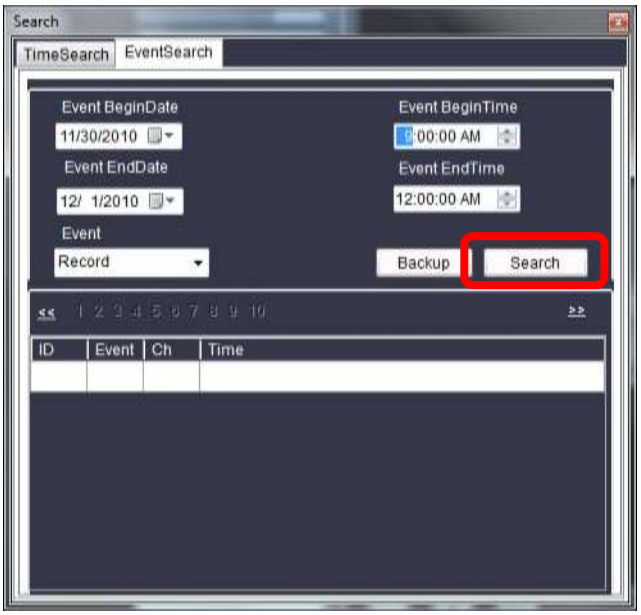
Playback by Event Search

Event Search allows you to specify a time

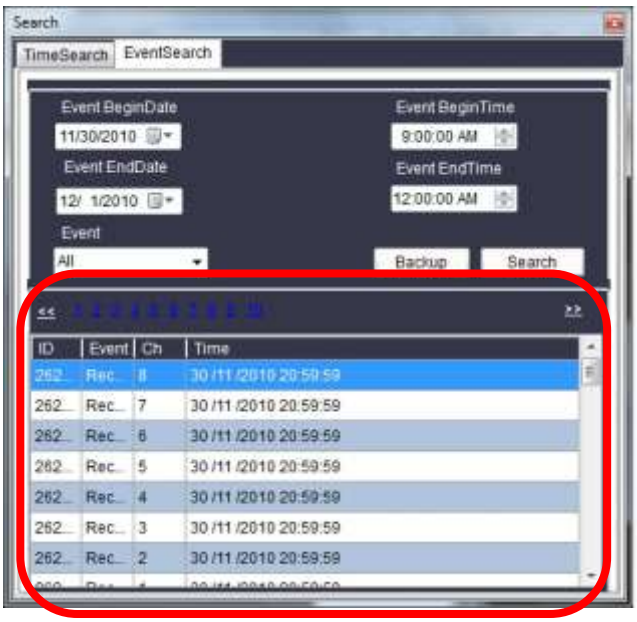
Step 1 In the **Event Search** menu, you will be asked to set the following:

- **Event Begin Date**: Select the start date for the video you would like to play back.
- **Event Begin Time**: Select the start time for the video you would like to play back.
- **Event End Date**: Select the end date for the video you would like to play back.
- **Event End Time**: Select the start time for the video you would like to play back.
- **Event**: Select the type of event you are searching for. The drop-down lists: Hardware, Normal, Warning, Record, All

Step 2 Press the button *"Search"* to start video playback.



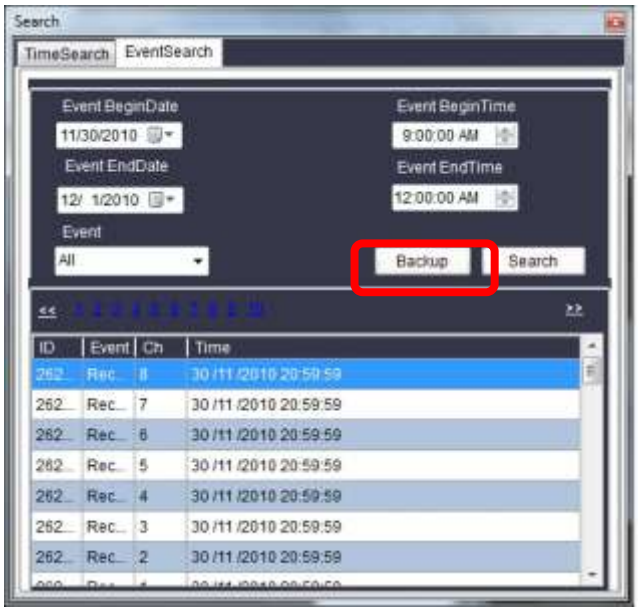
Step 3 You will see the search result table similar to the following figure:



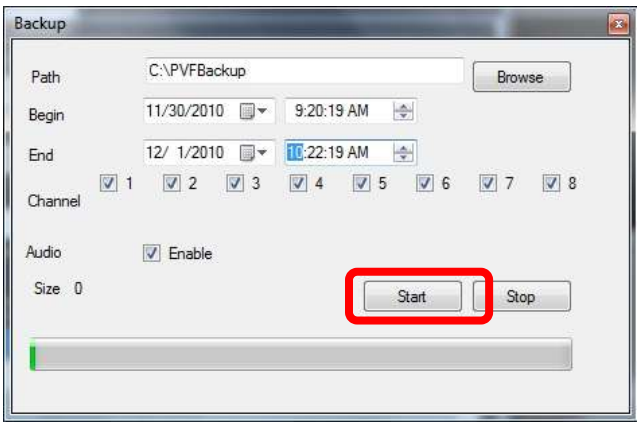
Step 4 Double-click on the video you would like to review. While in the playback screen, you may click on the icon to access the **Event Search** control window.

Step 5 Press the *"Backup"* button to create a copy of the video. The succeeding menu will require you to set the following:

- **Path**: Click on the *"Browse"* button to specify the location where you would like to store the file.
- **Begin**: Select the start date and time for the video you would like to create a copy of.
- **End**: Select the end date and time for the video you would like to create a copy of.
- **Channel**: Select the channel or channels from which the backup video or videos will be taken from.
- **Audio**: Enables the inclusion of audio into the backup
- **Size**: The file size automatically adjusts according to the duration (start and end time) set by the user.

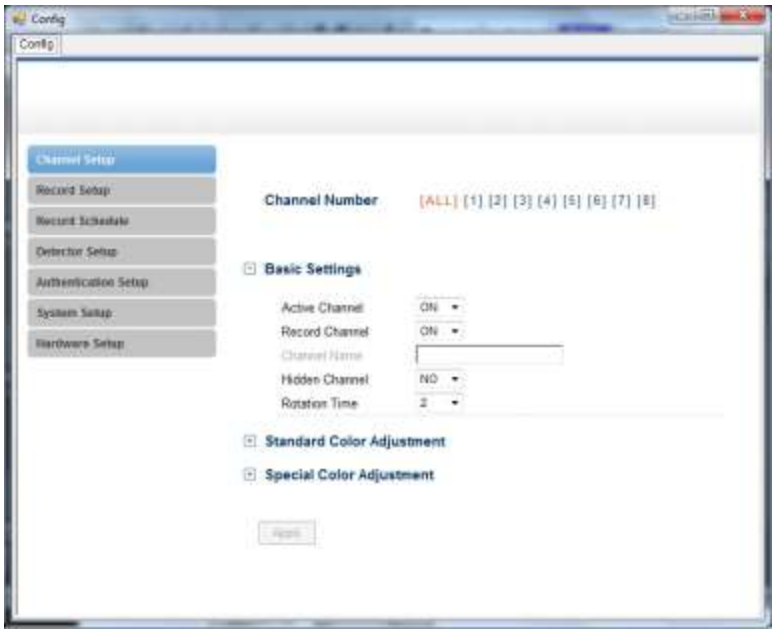


Step 6 Press "Start" to begin the backup process.



Remote DVR Configuration

Click the icon to display the remote configuration interface on your PCViewer.



Log-in to the Remote Configuration Interface

The authentication procedure for remote site access follows the DVR authentication process. Please login by using the designated user name and password. If you did not change any of these settings on your DVR, please use the default settings below.

Default User: admin
Default Password: 123456

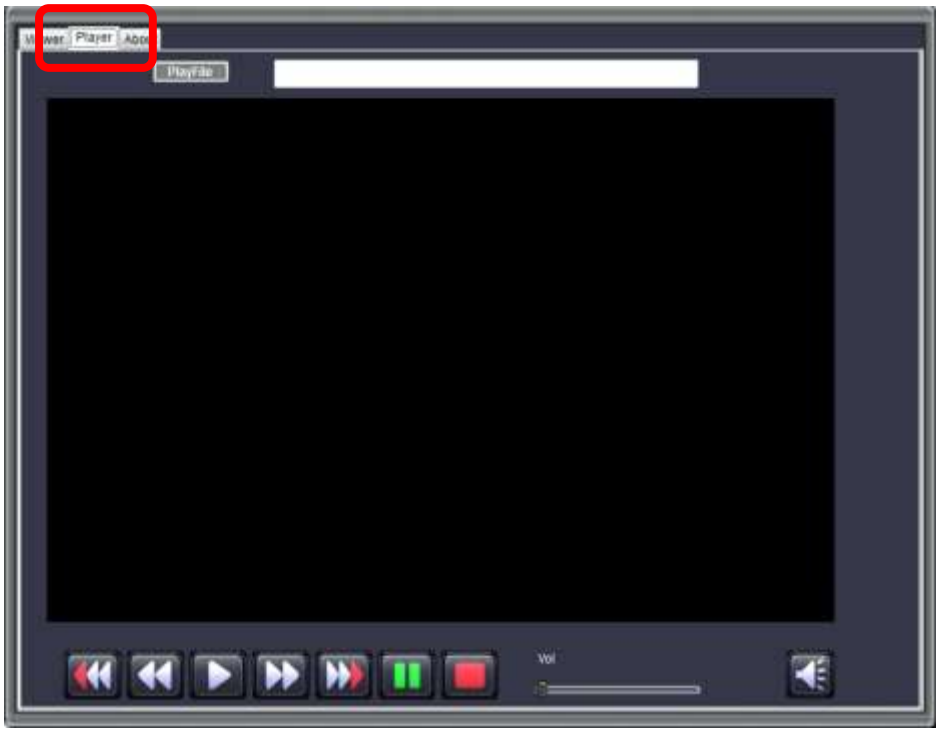
You can change the DVR configuration after successfully logging in.

The operation method of the remote configuration interface is consistent with the DVR interface. Please refer to the DVR operation sections on this manual.

PCViewer Player

The PCViewer can play stored PVF files with its built-in player.

Plug the USB device into USB port or transfer the file to a local disk on your personal computer from the USB storage. Click on the "Player" tab on the PCViewer interface.



Click on "PlayFile" to locate the file you would like to view. Once the file is found, the PCViewer Player will automatically display the stored video.

Chapter

7

Remote Viewers

ENXDVR-4C running H.264 supports remote viewing via 3G or Wi-Fi wireless connections. The DVR may be accessed through various mobile applications. These mobile applications are discussed in this chapter. Briefly, these are the:

- WebViewer for Internet Explorer®, an IE-based application that allows for viewing, playback, and configuration over a wide area network
- SecuViewer for Apple® Mobile Devices, an application specifically for Apple® mobile digital devices.
- SecuViewer for Android® Mobile Devices, an application specifically for Android® mobile digital devices.
- SecuViewer for BlackBerry® Mobile Devices, an application specifically for BlackBerry® mobile digital devices.
- Mobile WebViewer, an application for browsers to view the frames (videos are captured by frame) taken by the DVR

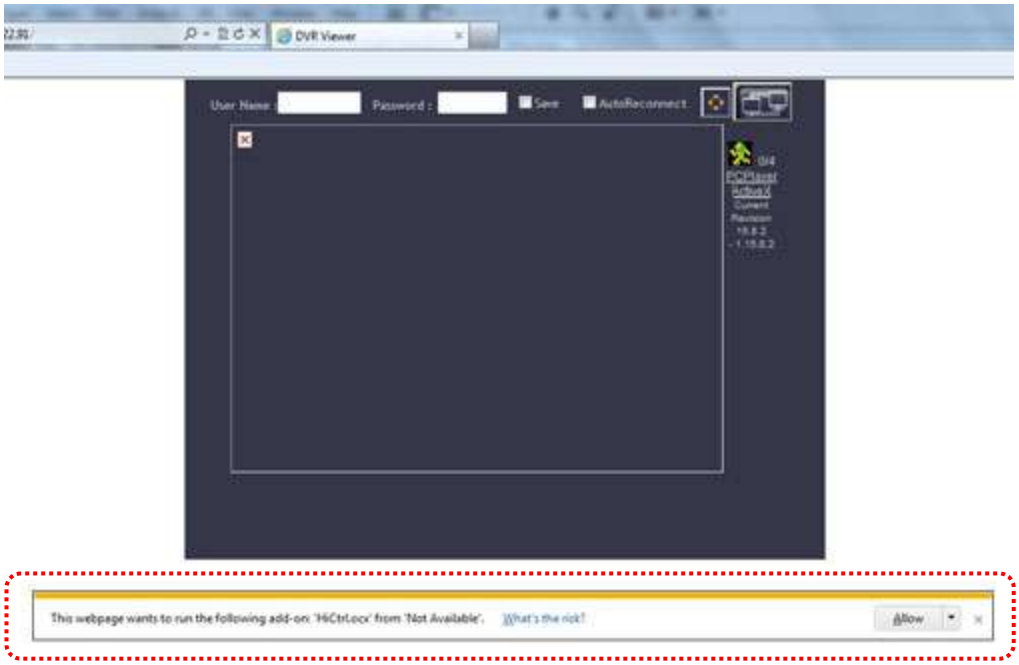
WebViewer for Internet Explorer®

This section introduces the remote viewing and control through ENXDVR-4C DVR Viewer. This function is supported only in the IE browser. You may encounter abnormal operations if you use other browsers. Some Microsoft™ Smart Phones loaded with Windows operating systems are already loaded with Internet Explorer web browser.

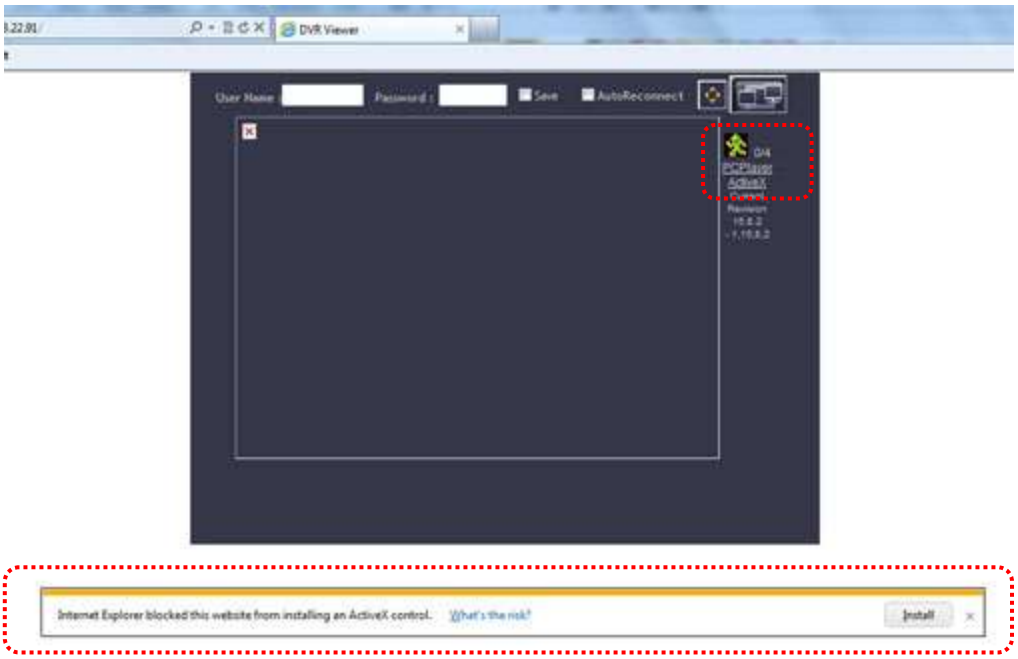
Install Active-X directly from the Internet Explorer webpage (generally for initial installation). This will allow you to install ActiveX properly without changing the security level of your Internet Explorer®. Refer to the following example to use the DVR Viewer:

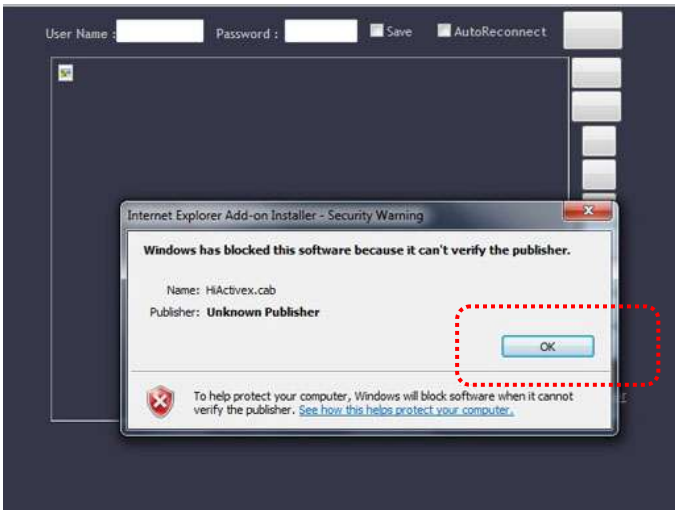
Step 1 Startup Internet Explorer and enter the DVR IP address to IE address bar. (Please determine your DVR network information.)

The WebViewer requires ActiveX control. If your browser does not have this feature, it will prompt an option to install it. Click on *Allow* (as shown below).

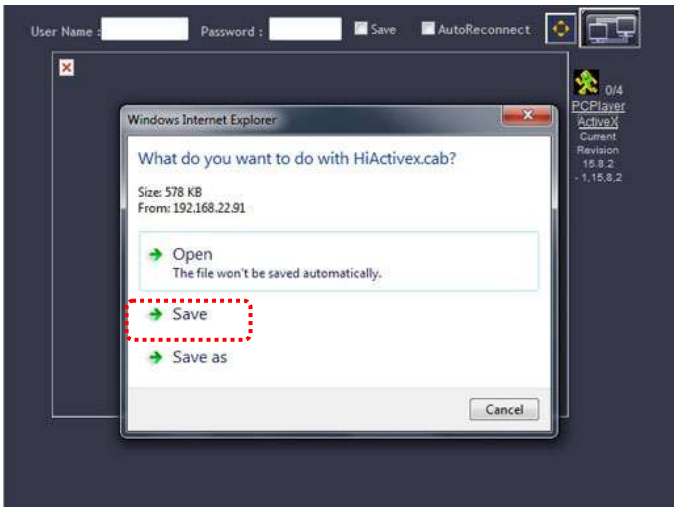


Enable ActiveX installation. You may also click on the *ActiveX* link on the right-hand side of the viewer (indicated below).

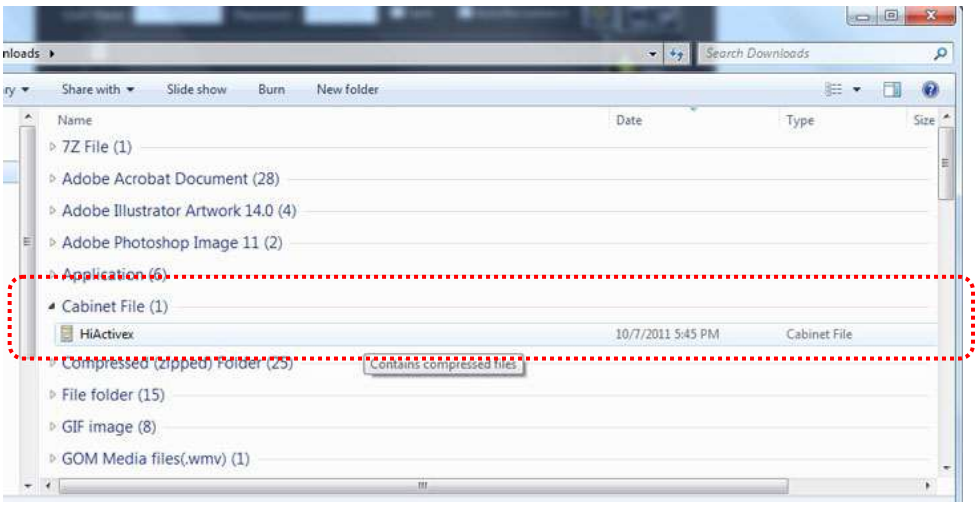


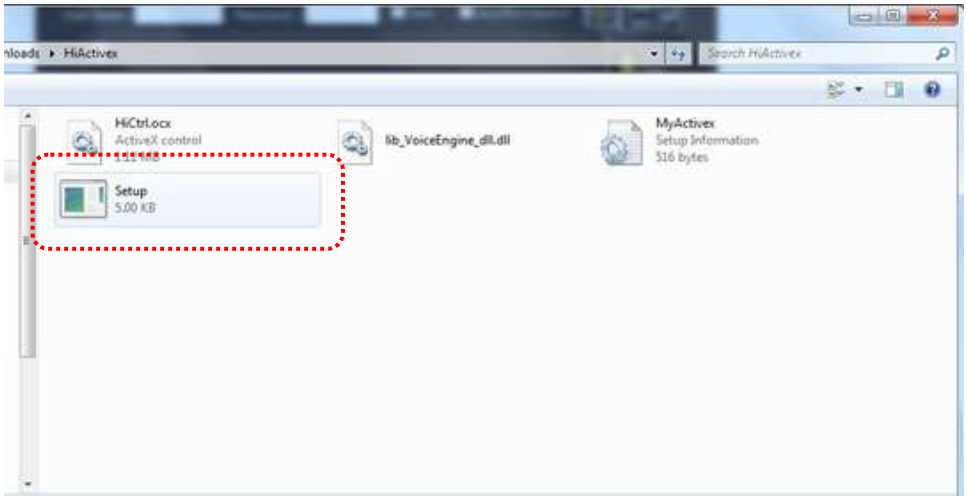

User Name :
Password :
Save
AutoReconnect
Internet Explorer Add-on Installer - Security Warning
Windows has blocked this software because it can't verify the publisher.
Name: HiActivex.cab
Publisher: Unknown Publisher
OK
To help protect your computer, Windows will block software when it cannot verify the publisher. See how this helps protect your computer.

Save the ActiveX cabinet file into your preferred folder.

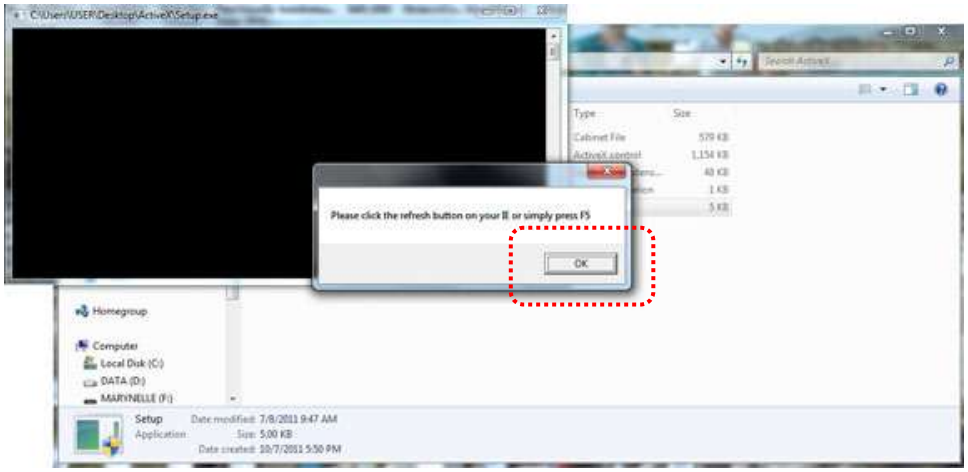


Extract all the contents of the cabinet file into a similar location (i.e. folder). Double click on *Setup* to begin installation.

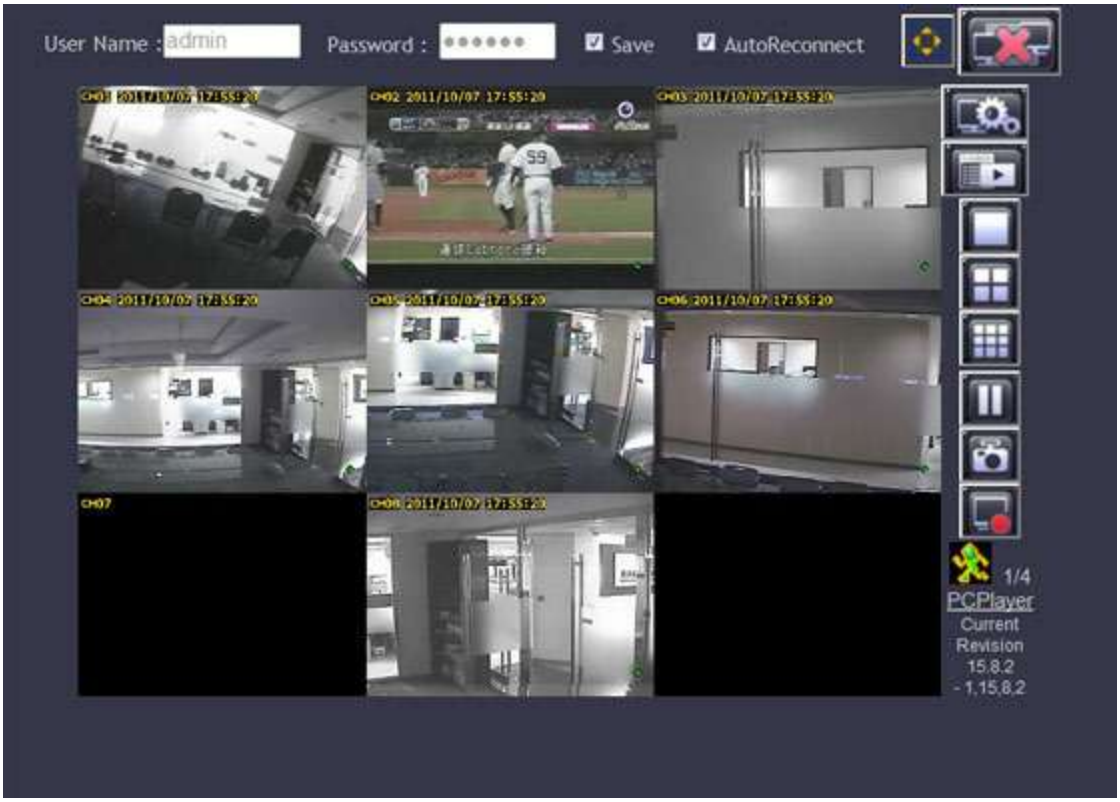




Once ActiveX is installed, you will be prompted to refresh your browser. Click OK.



Enter the designated user name and password. (Enter the default username is *admin* and the default password is *123456* if you did not change the DVR Authentication settings.) then press the " " icon to connect to the DVR from the remote site.



Switching the Channel Displays

Displays single channel in full view:

Double click the channel to display single channel in full view.

Display four, eight, or sixteen channels in full view:

Double click the full view display to switch into four, eight, or sixteen channels display. This depends on the number of channels supported by your DVR.

NOTE Multiple channel viewing depends on the number of channels available on the DVR.

Viewer Operation

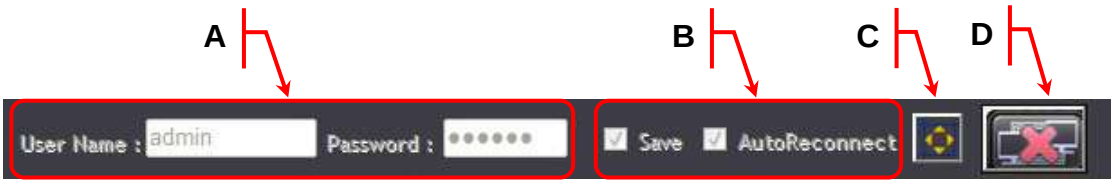
The top area of the DVR Viewer:

Allows the user to enter the user name and password to access the DVR

A - allows the user to *Save* and to automatically reconnect to the current connection

B - provides the option to view the DVR channels in normal or full screen

C - provides a means to connect or disconnect from the DVR being viewed



The DVR Viewer interface on the right-hand side is consistent with PC Viewer. Please refer to the PCViewer operation guide.

SecuViewer for Apple® Mobile Devices

SecuViewer for Apple® Mobile Devices is a free application or Apps available for the DVR user to connect to the DVR for remote monitoring through an Apple® mobile digital devices such as iPhone® iPod Touch®, iPad2® or iPad®

Install SecuViewer for Apple®

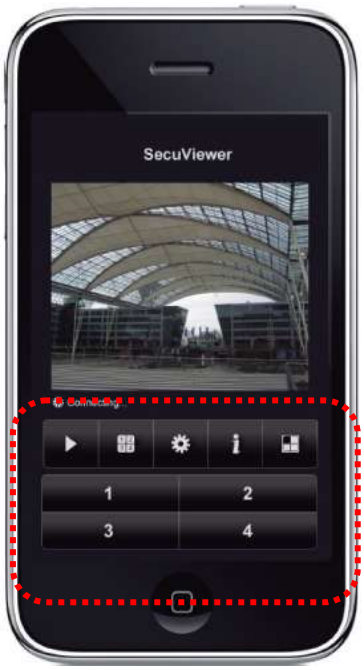
Follow these steps to install **SecuViewer** into your Apple® mobile digital device.

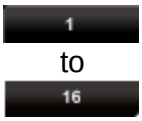
NOTE It is advisable for you to update your device firmware before installing **SecuViewer**. This mitigates the possibility of incompatibility errors.

Search for the SecuViewer app on Apple® App Store™ and install into your device.

You can see the SecuViewer icon on the iPhone® main screen.

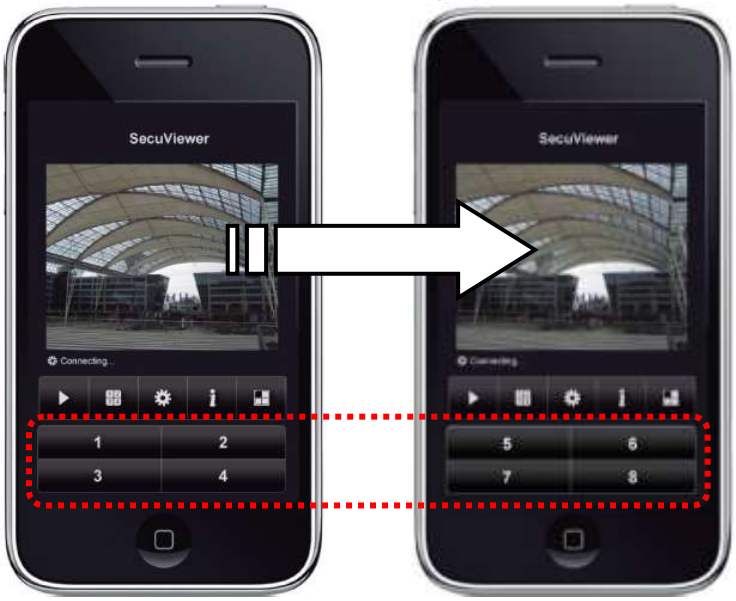
SecuViewer for Apple® Interface Overview



	Connect to th VR
	St p the DV connection
	Switch channel button display (CH1~CH4 ➡ CH5~CH8 ➡ CH9~CH12 ➡ CH13~CH16)
	Setup the DVR connection
	SecuViewer operation guide
	Switch to split view
	Display channel one (CH1) to sixteen (CH16)

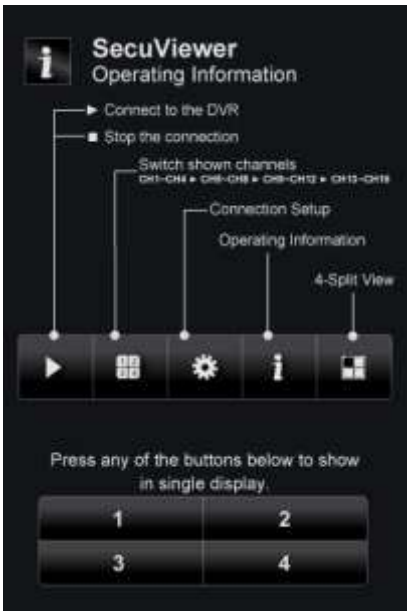
Switching channel display

There can only be four (4) channel buttons displayed at each time. You can use the button to switch between displays.



Quick Operation Guide

The button opens into an operation information screen similar to the one shown here:



Connecting to the ENXDVR-4C

Select the SecuViewer icon on iPhone® main screen to start the remote monitoring.

Tap on the icon to setup the DVR connection.

In the Setup and DVR list screen:

» Edit: Remove a DVR from the list.

» +: Add a new DVR to the list.

» >: Change the settings of the DVR.

Tap on the + button to configure a new DVR.

» **Name**: Name given to identify the DVR.

» **Network IP Address**: Enter the DVR IP address.

» **Network Port**: Enter the network port (default is **8000**).

» **User Name**: Enter the user name (default is **admin**).

» **Password**: Enter the password (default is **123456**).

When you are done with the setup, tap on **Ok**.

The DVR name will then appear on the DVR list screen. Tap on the DVR name to begin access.

NOTE Please wait for the images to load and appear as speed of connection the DVR may vary.

SecuViewer for Android® Mobile Devices

SecuViewer for Android® Mobile Devices is the free application available for the DVR user to connect to the DVR for remote monitoring through an Android® based mobile digital devices such as Android smart phones, tablet PC's, etc.

Install SecuViewer for Android®

Follow these steps to install **SecuViewer** into your Android® mobile digital device.

NOTE It is advisable for you to update your device firmware before installing **SecuViewer**. This mitigates the possibility of incompatibility errors.

Search for the SecuViewer app on Android Market™ and download to your device.

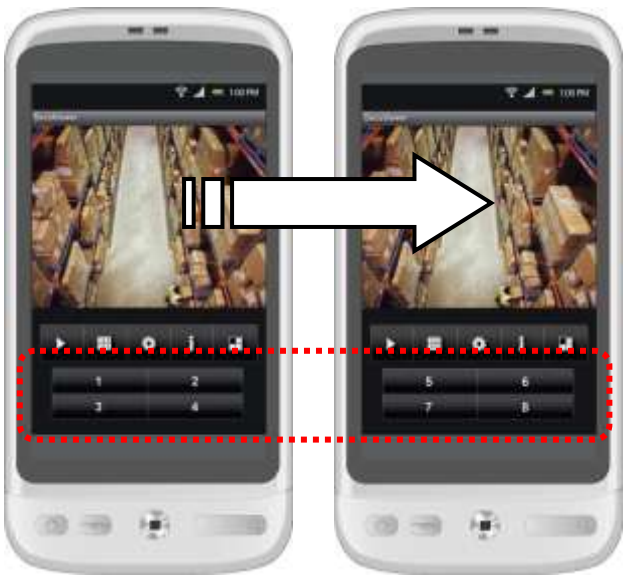
You can see the SecuViewer icon on the device main screen.

SecuViewer for Android® Interface Overview

	Connect to the DVR
	Stop the DVR connection
	Switch channel button display (CH1~CH4 ➡ CH5~CH8 ➡ CH9~CH12 ➡ CH13~CH16)
	Setup the DVR connection
	SecuViewer operation guide
	Switch to split view
	Display channel one (CH1) to sixteen (CH16)

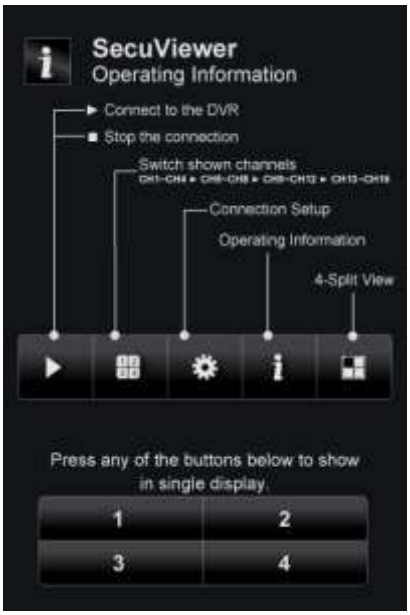
Switching channel display

There can only be four (4) channel buttons displayed at each time. You can use the button to switch between displays.



Quick Operation Guide

The i button opens into an operation information screen similar to the one shown here:



Connecting to the DVR

Select the SecuViewer icon on your Android® device main screen to start the remote monitoring.

Tap on the icon to setup the DVR connection.

In the Setup and DVR list screen:

» **DELETE**: Remove a DVR from the list.

» **ADD**: Add a new DVR to the list.

» **EDIT**: Change the settings of the DVR

Tap on **ADD** to

» **Name**: Name given to identify the DVR.

» **IP**: Enter the DVR IP address.

» **Port**: Enter the network port (default is **8000**).

» **User**: Enter the user name (default is **admin**).

» **Password**: Enter the password (default is **123456**).

When you are done with the setup, tap on **Ok**. On the DVR list screen, tap on the DVR you would like to access.

NOTE Please wait for the images to load and appear as speed of connection the DVR may vary.

Installation Instruction of SecuViewer for Blackberry Phones

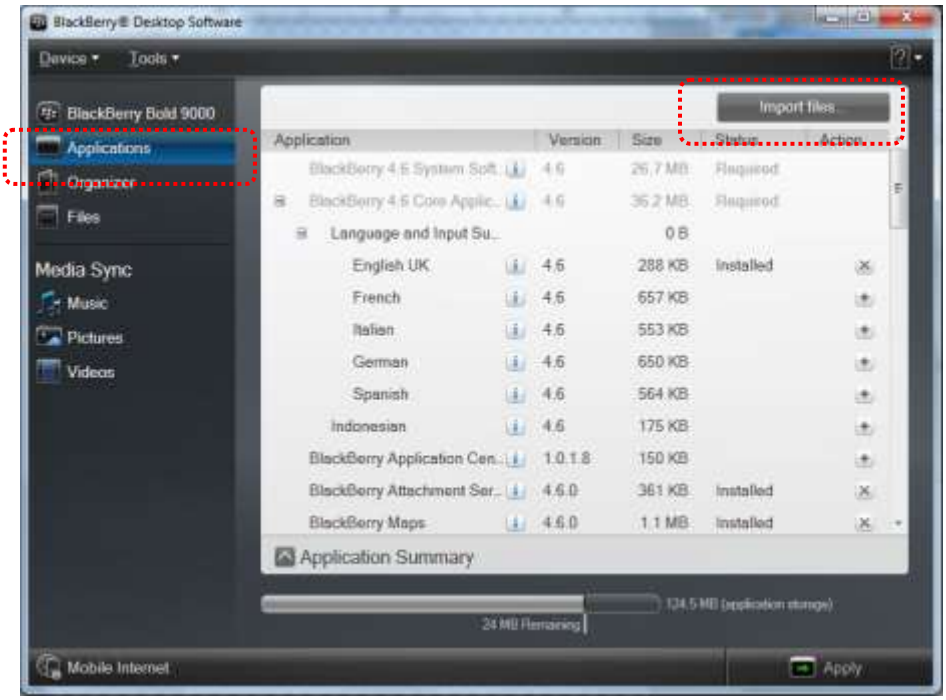
SecuViewer for Blackberry is a software program designed to view your Encore surveillance videos remotely using your Blackberry phone. To use this feature, the SecuViewer needs to be installed to your Blackberry phone. Follow these simple step by step installation instructions.

Install SecuViewer for Blackberry OS

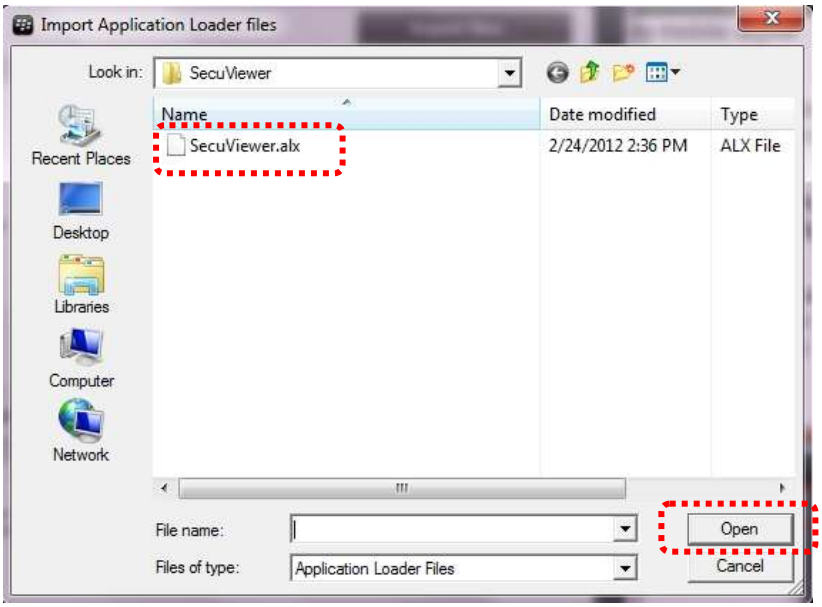
Step 1 Determine the OS version installed in your BlackBerry mobile phone device. SecuViewer for BlackBerry currently supports OS versions 4.6, 5.0 and 6.0.

Step 2 Insert the Encore setup disc of the ENXDVR-4C to the CDROM drive if you have not done so. If the product installation menu screen pops up, ignore it or you can close it. You will need the files in the CD later.

Step 3 Using the USB download cable of your Blackberry phone, connect your phone to the computer that has your BlackBerry Desktop Software installed. Wait a little bit to let your computer bring up the Blackberry Desktop Software main screen. Open the *Applications* tab and then click on "*Import files…*"



Step 4 After you click the *"Import Files…"* a Windows dialogue box will pop up where you can browse the location of the *SecuViewer.alx* and *SecuViewer.cod* are located. Locate these files in the Encore setup disc. The *SecuViewer.cod* file will not show on your browser screen. Click on *SecuViewer.alx* to select it then click "*Open".*

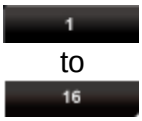


Step 5 After selecting the file you will be brought back to the *Blackberry Desktop Software / Applications* screen. For OS Version 6.0 the files are already imported to your phone. For OS Version 5.0 click to select the "SecuViewer" from the *Application Summary* pane then click on the *"Apply"* button located in the lower right corner of the menu screen.

Step 6 Disconnect your BlackBerry from the computer.

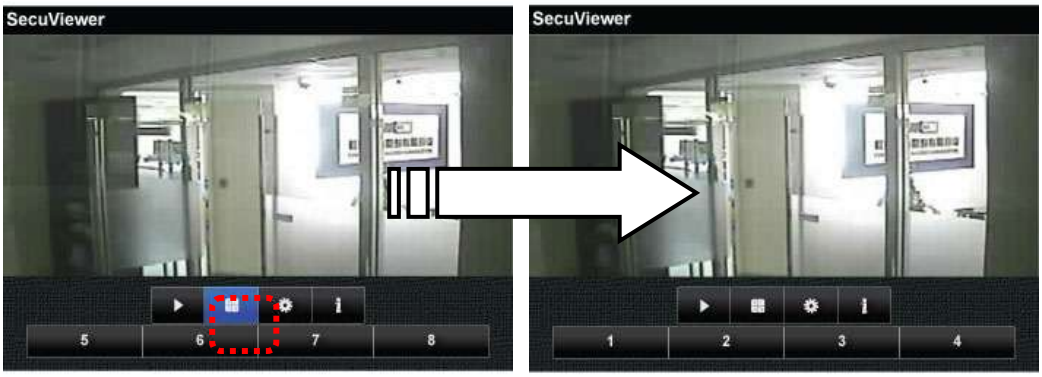
From your Blackberry phone, browse through your *Applications* folder (OS versions 5.0 and 6.0) or your *Downloads* folder (OS versions 4.6). Look for the blue SecuViewer icon and run it.

SecuViewer for BlackBerry OS Interface Overview

	Connect to the DVR
	Stop the DVR connection
	Switch channel button display
	Configure the DVR connection
	SecuViewer version info
	Display channel one (CH1) up to sixteen (CH16) channels

Switching channel display

There can only be four (4) channel buttons displayed at each time. Use the button to switch between displays.



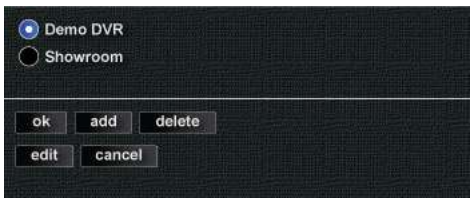
Version information

The button displays the version of the SecuViewer for BlackBerry installed in your device

Connecting to the DVR

Click on the SecuViewer icon on the BlackBerry.

Click on the icon to configure the DVR connection.



The configured accounts are listed on top of the screen (e.g. Demo DVR).

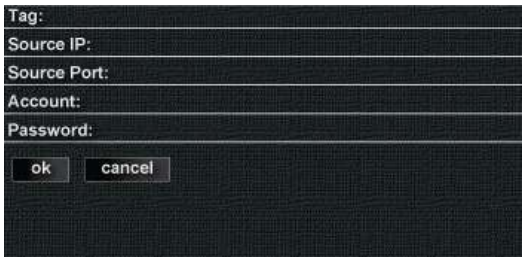
» **ok**: Connect to a DVR through selected account

» **add**: Add a new account. A maximum of three accounts can be configured.

» **delete**: Delete the selected account.

» **edit**: Edit the configuration of the selected account.

» **cancel**: Return to main page



The **add** button opens to a window that allows you to configure the remote connection to a DVR.

- **Tag**: Name given to identify the DVR.
- **Source IP**: Enter the DVR IP Address.
- **Source Port**: Enter the network port (default is **8000**).
- **Account**: Enter the user account name (default is **admin**).
- **Password**: Enter the account password (default is **123456**).

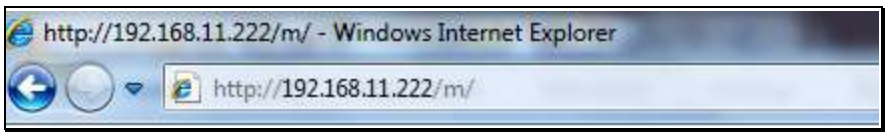
Browser JPEG Viewing

This section illustrates the steps for viewing the DVR using any web browser. This is a simplistic program that allows you to view channels of the DVR one at a time on your browser (e.g. Internet Explorer™, Google Chrome™, and Firefox™). Images may be viewed based on a designated refresh rate. You may use this program on your computer or a mobile device that has a web browser installed.

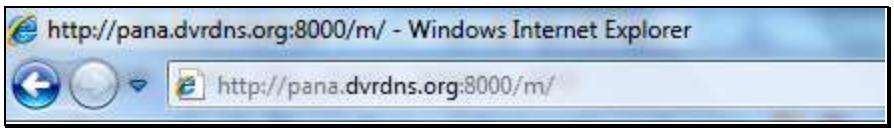
Step 7 Follow the instructions for installing the DVR. Assign an IP address for the DVR.

Open the web browser. Type in the IP address or hostname of the DVR followed by an "m" and a "/". It would look like the following examples:

Example 1: The DVR's IP address is 192.168.11.222.

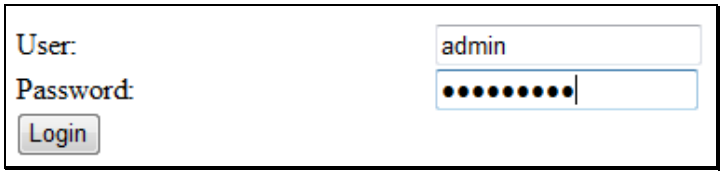


Example 2: The DVR's DDNS address is pana.dvrdns.org and its remote monitoring port is 8000.



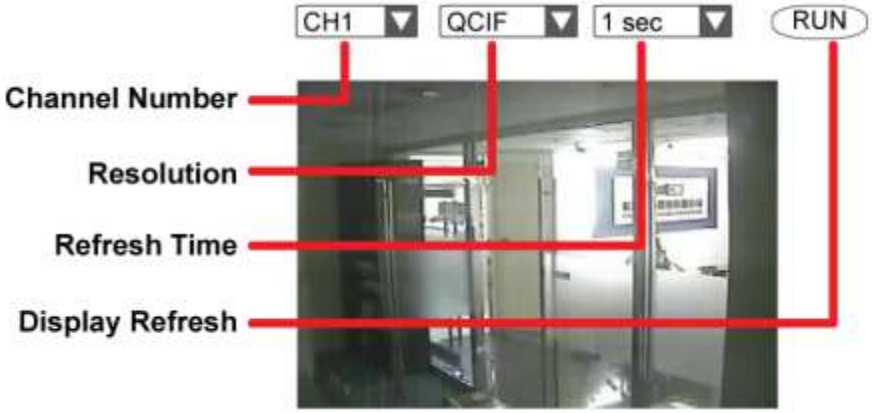
Step 8 A window requiring account information (i.e. user name and password) will appear. Enter the authorized ID and password. Press the *Login* button.

If the DVR does not require authorization, leave the fields blank and press the *Login* button.



Step 9 The first channel (CH1) of the DVR will appear on the screen of the mobile device. Select the channel to be viewed, the desired resolution, and the refresh time from the drop-down menus.

- **Channel Number**: CH1~CH4 (4Ch DVR), CH1-CH8 (8Ch DVR), CH1~CH16 (16Ch DVR)
- **Resolution**: QCIF (Quarter CIF), CIF, or H/D1 (Half D1).
- **Refresh Time**: Time for images to refresh on display (1sec, 2sec, 5sec, 10sec, or 30sec).
- **RUN**: Allows the user to refresh the display on the screen.



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